

Chemical Analysis Report

SO-DIST-2023-04-27-01

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

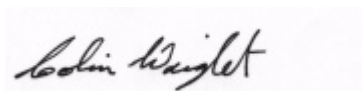
Event Description: **2023 SMP: Burnt Store & More**
Request ID: **RQ-2023-04-10-31**
Customer: **SO-DIST**
Project ID: **SMP**

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

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Certified by: Colin Wright, Program Administrator

Date Certified: 18-MAY-2023 09:43

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular background.

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 AT N OF OLD
 BURNTSTORE**

Collection Date/Time: 04/26/2023 08:55

Field ID: G2SD0015

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2403664	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P429115	
	SM 2320 B-2011	Total Alkalinity	196		mg CaCO3/L	P429580	
	SM 2540 D-2015	TSS	3	I Q	mg/L	P429768	
	SM 4500-F- C-2011	Fluoride	0.45		mg F/L	P429444	
2403665	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P429254	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75		mg N/L	P429398	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429549	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P429308	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P429307	

Ref. Method and Comment:

SM 2540 D-2015: The sample was analyzed out of holding time because of analytical difficulties.

Sample Location: FORD CANAL AT GALLEE WAY

Collection Date/Time: 04/26/2023 09:45

Field ID: G3SD0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2403666	DEP SOP: NU-094-1	Color (true)	43		PCU	P429093	
	EPA 180.1 Rev. 2.0	Turbidity	0.95	I	NTU	P429115	
	EPA 300.0 Rev. 2.1	Chloride	96		mg Cl/L	P429485	
		Sulfate	26		mg SO4/L	P429488	
	SM 2320 B-2011	Total Alkalinity	216		mg CaCO3/L	P429580	
	SM 2540 C-2015	TDS	418		mg/L	P429710	
	SM 2540 D-2015	TSS	2	I	mg/L	P429741	
2403667	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P429285	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P429255	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.57		mg N/L	P429168	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P429408	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P429233	
2403675	SM 5310 B-2011	Organic Carbon	9.1		mg C/L	P429306	
	EPA 8321B	2,4-D	0.0073	I	ug/L	P429258	
		Acesulfame K	0.16	I	ug/L	P429064	
		2,4,5-T	0.0040	U	ug/L	P429258	
		AMPA	1.3		ug/L	P429064	
		Acetaminophen	0.0080	U	ug/L	P429258	
		Acetamiprid	0.0020	U	ug/L	P429258	
		Endothall	0.25	U	ug/L	P429064	
		Glufosinate	0.10	U	ug/L	P429064	
		Glyphosate	4.3		ug/L	P429064	
		Afidopyropen	0.0020	U	ug/L	P429258	
		Bentazon	0.40		ug/L	P429258	
		Sucralose	0.65		ug/L	P429064	
		Benzovindiflupyr	0.0020	U	ug/L	P429258	
		Carbamazepine	8.4E-04	I	ug/L	P429258	
		Clothianidin	0.0020	U	ug/L	P429258	
		Dinotefuran	0.0020	U	ug/L	P429258	
		Diuron	0.0020	U	ug/L	P429258	
		Fenuron	0.032	U	ug/L	P429258	
		Fluridone	8.0E-04	U	ug/L	P429258	
		Imazapyr	0.027		ug/L	P429258	
		Hydrocodone	0.0020	U	ug/L	P429258	
		Ibuprofen	0.080	U	ug/L	P429258	
		Imidacloprid	0.0052	I	ug/L	P429258	
		Linuron	0.0040	U	ug/L	P429258	
		Mandestrobin	0.0020	U	ug/L	P429258	
		MCPP	0.0020	U	ug/L	P429258	
		Naproxen	0.0080	U	ug/L	P429258	
		Primidone	0.0040	U	ug/L	P429258	
		Pyraclostrobin	0.0020	U	ug/L	P429258	
		Silvex	0.0040	U	ug/L	P429258	
		Thiamethoxam	0.0020	U	ug/L	P429258	

Field ID: G3SD0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2403675	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P429258	
		Triclopyr	0.0040	U	ug/L	P429258	

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 bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: MANUEL BRANCH AT BROADWAY

Collection Date/Time: 04/26/2023 10:15

Field ID: G3SD0078

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2403674	EPA 8270E	Aldrin	0.70	U	ng/L	P429562	
		Alpha-BHC	0.11	U	ng/L	P429562	
		Alpha-Chlordane	0.21	U	ng/L	P429562	
		PCB-1016	2.1	U	ng/L	P429562	
		Beta-BHC	0.11	U	ng/L	P429562	
		PCB-1221	2.1	U	ng/L	P429562	
		Beta-Cyfluthrin	1.3	U	ng/L	P429562	
		PCB-1232	2.1	U	ng/L	P429562	
		Bifenthrin	0.54	U	ng/L	P429562	
		PCB-1242	2.1	U	ng/L	P429562	
		Carbophenothion	0.97	U	ng/L	P429562	
		PCB-1248	2.1	U	ng/L	P429562	
		Chlorothalonil	3.9	U	ng/L	P429562	
		PCB-1254	2.1	U	ng/L	P429562	
		Cis-Nonachlor	0.21	U	ng/L	P429562	
		PCB-1260	2.1	U	ng/L	P429562	
		Cypermethrin	1.6	U	ng/L	P429562	
		Dacthal	0.16	U	ng/L	P429562	
		DDD-p,p'	0.27	U	ng/L	P429562	MS
		DDE-p,p'	0.21	U	ng/L	P429562	
		DDT-p,p'	0.27	U	ng/L	P429562	
		Delta-BHC	0.43	U	ng/L	P429562	
		Deltamethrin	1.3	U	ng/L	P429562	
		Dichlobenil	0.27	U	ng/L	P429562	
		Dicofol	1.3	U	ng/L	P429562	
		Dieldrin	0.97	I	ng/L	P429562	
		Endosulfan I	0.43	U	ng/L	P429562	
		Endosulfan II	0.43	U	ng/L	P429562	
		Endosulfan Sulfate	0.32	U	ng/L	P429562	
		Endrin	0.43	U	ng/L	P429562	
		Endrin Aldehyde	0.80	U	ng/L	P429562	
		Endrin Ketone	0.43	U	ng/L	P429562	
		Esfenvalerate	0.80	U	ng/L	P429562	
		Ethalfuralin	0.16	U	ng/L	P429562	
		Fenpropathrin	0.27	U	ng/L	P429562	
		Gamma-BHC	0.13	U	ng/L	P429562	
		Gamma-Chlordane	0.21	U	ng/L	P429562	
		Heptachlor	0.21	U	ng/L	P429562	MS, RPD
		Heptachlor Epoxide	0.27	U	ng/L	P429562	
		Hexachlorobenzene**	1.1	U	ng/L	P429562	
		Kepone	5.4	UJ	ng/L	P429562	CCV
		Lambda-Cyhalothrin	0.80	U	ng/L	P429562	
		Methoprene	0.80	U	ng/L	P429562	
		Methoxychlor	0.32	U	ng/L	P429562	

Field ID: G3SD0078

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2403674	EPA 8270E	MGK-264	0.26	I	ng/L	P429562	
		Mirex	0.38	U	ng/L	P429562	
		Oxychlordane	0.32	U	ng/L	P429562	
		Permethrin	1.7	U	ng/L	P429562	
		Phenothrin	0.97	U	ng/L	P429562	
		Piperonyl Butoxide	0.65	I	ng/L	P429562	
		Prallethrin	2.1	U	ng/L	P429562	
		Tau-Fluvalinate	0.27	U	ng/L	P429562	
		Tetramethrin	0.80	U	ng/L	P429562	
		Trans-Nonachlor	0.21	U	ng/L	P429562	
		Triclosan Methyl	0.16	U	ng/L	P429562	
		Trifluralin	0.21	U	ng/L	P429562	
	EPA 8276	Chlordane	2.1	U	ng/L	P429562	
		Toxaphene	16	U	ng/L	P429562	

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P429093

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429115

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429485

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429488

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429254

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429255

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429168

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429398

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429408

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: P429549

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429233

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429308

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

Reference Method: EPA 8270E
Batch ID: P429562

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: P429562

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: P429562

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: P429562

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: P429064

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: P429258

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P429258

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: P429580

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

Reference Method: SM 2540 C-2015

Batch ID: P429710

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P429741

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P429768

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P429285

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P429444

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P429306

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2011
Batch ID: P429307

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: P429093

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.1		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429115

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429485

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429488

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429254

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429255

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: P429168

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.9		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429408

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P429549

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P429233

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P429308

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

Reference Method: EPA 8270E

Batch ID: P429562

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	59.0		P	10 - 92.0
Alpha-BHC	101		P	75 - 107
Alpha-Chlordane	69.1		P	50 - 108
Beta-BHC	71.5		P	36 - 138
Beta-Cyfluthrin	62.4		P	20 - 161
Bifenthrin	62.8		P	10 - 119
Carbophenothion	92.7		P	19 - 94.0
Chlorothalonil	50.1		P	26 - 186
Cis-Nonachlor	57.9		P	42 - 119
Cypermethrin	69.5		P	22 - 150
Dacthal	106		P	72 - 119
DDD-p,p'	57.7		P	45 - 107
DDE-p,p'	88.9		P	48 - 106
DDT-p,p'	73.9		P	48 - 110
Delta-BHC	64.5		P	54 - 140
Deltamethrin	61.4		P	22 - 189
Dichlobenil	105		P	36 - 117
Dicofol	62.9		P	46 - 155
Dieldrin	94.7		P	54 - 110
Endosulfan I	76.2		P	59 - 105
Endosulfan II	78.8		P	51 - 118
Endosulfan Sulfate	82.4		P	57 - 121
Endrin	69.7		P	10 - 120
Endrin Aldehyde	62.0		P	34 - 118
Endrin Ketone	75.6		P	69 - 177
Esfenvalerate	51.6		P	23 - 168
Ethalfuralin	79.9		P	49 - 99.0
Fenpropathrin	67.5		P	34 - 117
Gamma-BHC	81.8		P	72 - 117
Gamma-Chlordane	61.0		P	43 - 106
Heptachlor	75.0		P	41 - 98.0
Heptachlor Epoxide	57.7		P	57 - 106
Hexachlorobenzene	51.0		P	36 - 99.0
Kepone	116		P	16 - 215

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P429562

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lambda-Cyhalothrin	65.4		P	21 - 177
Methoprene	57.4		P	10 - 119
Methoxychlor	76.4		P	60 - 112
MGK-264	61.1		P	26 - 122
Mirex	61.5		P	10 - 169
Oxychlordane	83.7		P	43 - 105
PCB-1016	61.5		P	48 - 112
PCB-1260	61.2		P	44 - 118
Permethrin	103		P	24 - 148
Phenothrin	44.2		P	10 - 106
Piperonyl Butoxide	69.8		P	10 - 139
Prallethrin	93.4		P	17 - 109
Tau-Fluvalinate	46.8		P	13 - 131
Tetramethrin	79.5		P	10 - 132
Trans-Nonachlor	72.8		P	44 - 106
Triclosan Methyl	79.4		P	59 - 109
Trifluralin	73.6		P	44 - 101

Reference Method: EPA 8276

Batch ID: P429562

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	73.4		P	61 - 116
Toxaphene	85.1		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P429064

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	145		P	40 - 150
AMPA	86.1		P	40 - 150
Endothall	76.9		P	40 - 150
Glufosinate	66.6		P	40 - 150
Glyphosate	90.2		P	40 - 150
Sucralose	105		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P429258

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	85.2		P	40 - 150
2,4,5-T	83.2		P	40 - 150
Acetaminophen	78.2		P	30 - 150
Acetamiprid	79.9		P	40 - 150
Afidopyropen	49.8		P	30 - 150
Bentazon	141		P	30 - 150
Benzovindiflupyr	81.6		P	40 - 150
Carbamazepine	83.9		P	40 - 150
Clothianidin	86.8		P	40 - 150
Dinotefuran	105		P	40 - 150
Diuron	77.1		P	40 - 150
Fenuron	87.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P429258

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluridone	77.1		P	40 - 150
Hydrocodone	86.5		P	40 - 150
Ibuprofen	91.0		P	40 - 150
Imazapyr	84.2		P	40 - 150
Imidacloprid	83.9		P	40 - 150
Linuron	81.2		P	40 - 150
Mandestrobin	86.4		P	40 - 150
MCPP	87.7		P	40 - 150
Naproxen	77.0		P	40 - 150
Primidone	85.2		P	40 - 150
Pyraclostrobin	85.6		P	40 - 150
Silvex	81.7		P	40 - 150
Thiamethoxam	88.4		P	40 - 150
Tolfenpyrad	55.3		P	30 - 150
Triclopyr	85.9		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P429580

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P429710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.4		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P429741

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.8		P	85 - 106

Reference Method: SM 2540 D-2015

Batch ID: P429768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.9		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P429285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	96 - 104

Reference Method: SM 4500-F- C-2011

Batch ID: P429444

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: P429306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	103		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P429307

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	105		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429485

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403614	Chloride	104		P	90 - 110
2403823	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429488

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403614	Sulfate	102		P	90 - 110
2403823	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402635	Ammonia-N	98.8	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429255

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403689	Ammonia-N	99.2	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403689	Kjeldahl Nitrogen	104	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429398

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403602	Kjeldahl Nitrogen	104	94.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403615	NO2NO3-N	108	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403139	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429233

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403825	Total-P	98.9	99.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P429308

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403601	Total-P	99.1	99.7	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P429562

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403370	Aldrin	60.1	64.5	P/P	20 - 82.0
2403370	Alpha-BHC	86.1	91.2	P/P	71 - 109
2403370	Alpha-Chlordane	94.5	102	P/P	42 - 106
2403370	Beta-BHC	110	117	P/P	69 - 180
2403370	Beta-Cyfluthrin	121	115	P/P	18 - 175
2403370	Bifenthrin	96.8	111	P/P	21 - 128
2403370	Carbophenothion	67.0	74.2	P/P	10 - 126
2403370	Chlorothalonil	77.7	86.7	P/P	10 - 300
2403370	Cis-Nonachlor	49.8	61.2	P/P	34 - 106
2403370	Cypermethrin	91.5	85.2	P/P	22 - 158
2403370	Dacthal	74.3	89.6	P/P	54 - 116
2403370	DDD-p,p'	120	129	F/F	34 - 107
2403370	DDE-p,p'	110	101	P/P	33 - 110
2403370	DDT-p,p'	86.8	87.6	P/P	50 - 122
2403370	Delta-BHC	105	109	P/P	77 - 193
2403370	Deltamethrin	93.3	109	P/P	10 - 195
2403370	Dichlobenil	73.2	79.8	P/P	25 - 113
2403370	Dicofol	74.7	65.8	P/P	38 - 247
2403370	Dieldrin	98.7	88.1	P/P	45 - 118
2403370	Endosulfan I	71.9	81.3	P/P	51 - 106
2403370	Endosulfan II	81.7	89.8	P/P	37 - 122
2403370	Endosulfan Sulfate	103	118	P/P	43 - 132
2403370	Endrin	53.5	62.9	P/P	29 - 101
2403370	Endrin Aldehyde	46.2	46.2	P/P	19 - 110
2403370	Endrin Ketone	121	108	P/P	60 - 140
2403370	Esfenvalerate	97.4	104	P/P	26 - 199
2403370	Ethalfuralin	79.1	76.2	P/P	45 - 99.0
2403370	Fenpropathrin	86.1	83.0	P/P	35 - 120
2403370	Gamma-BHC	90.0	104	P/P	63 - 128
2403370	Gamma-Chlordane	91.4	89.9	P/P	40 - 104
2403370	Heptachlor	80.9	123	P/F	36 - 97.0
2403370	Heptachlor Epoxide	88.1	96.2	P/P	49 - 184
2403370	Hexachlorobenzene	68.6	65.7	P/P	39 - 96.0
2403370	Kepone	73.1	92.9	P/P	10 - 217
2403370	Lambda-Cyhalothrin	142	131	P/P	21 - 193
2403370	Methoprene	71.5	78.2	P/P	20 - 106
2403370	Methoxychlor	105	105	P/P	53 - 118
2403370	MGK-264	69.1	75.8	P/P	40 - 118
2403370	Mirex	71.4	78.6	P/P	26 - 92.0
2403370	Oxychlordane	74.9	74.6	P/P	44 - 99.0
2403370	Permethrin	148	124	P/P	33 - 182
2403370	Phenothrin	99.3	98.4	P/P	10 - 129
2403370	Piperonyl Butoxide	48.2	56.8	P/P	10 - 211
2403370	Prallethrin	83.1	76.5	P/P	24 - 113
2403370	Tau-Fluvalinate	120	118	P/P	14 - 149
2403370	Tetramethrin	88.8	103	P/P	17 - 151

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P429562

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403370	Trans-Nonachlor	74.5	72.3	P/P	42 - 102
2403370	Triclosan Methyl	70.2	76.4	P/P	48 - 108
2403370	Trifluralin	73.8	79.2	P/P	47 - 96.0
2403674	PCB-1016	78.4	79.0	P/P	46 - 111
2403674	PCB-1260	66.1	66.8	P/P	45 - 114

Reference Method: EPA 8276
Batch ID: P429562

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403674	Chlordane	87.3	90.9	P/P	53 - 126
2403674	Toxaphene	96.6	104	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P429064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403692	Acesulfame K	134	133	P/P	40 - 150
2403692	AMPA	82.7	78.1	P/P	40 - 150
2403692	Endothall	82.8	80.5	P/P	40 - 150
2403692	Glufosinate	70.8	67.2	P/P	40 - 150
2403692	Glyphosate	82.4	83.9	P/P	40 - 150
2403692	Sucralose	112	91.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429258

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403675	2,4-D	104	111	P/P	40 - 150
2403675	2,4,5-T	108	105	P/P	40 - 150
2403675	Acetaminophen	84.2	87.7	P/P	30 - 150
2403675	Acetamiprid	84.2	78.9	P/P	40 - 150
2403675	Afidopyropen	92.3	88.5	P/P	30 - 150
2403675	Benzovindiflupyr	80.6	80.2	P/P	40 - 150
2403675	Carbamazepine	71.6	67.3	P/P	40 - 150
2403675	Clothianidin	105	104	P/P	40 - 150
2403675	Dinotefuran	104	102	P/P	40 - 150
2403675	Diuron	65.6	62.4	P/P	40 - 150
2403675	Fenuron	63.5	63.4	P/P	40 - 150
2403675	Fluridone	61.3	62.1	P/P	40 - 150
2403675	Hydrocodone	71.9	69.9	P/P	40 - 150
2403675	Ibuprofen	60.5	52.8	P/P	40 - 150
2403675	Imazapyr	105	108	P/P	40 - 150
2403675	Imidacloprid	115	116	P/P	40 - 150
2403675	Linuron	70.3	67.5	P/P	40 - 150
2403675	Mandestrobin	77.7	79.5	P/P	40 - 150
2403675	MCPP	121	106	P/P	40 - 150
2403675	Naproxen	57.1	56.0	P/P	40 - 150
2403675	Primidone	96.7	97.0	P/P	40 - 150
2403675	Pyraclostrobin	81.5	76.8	P/P	40 - 150
2403675	Silvex	114	118	P/P	40 - 150
2403675	Thiamethoxam	101	99.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P429258

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403675	Tolfenpyrad	54.5	49.3	P/P	30 - 150
2403675	Triclopyr	101	105	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P429285

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403612	Fluoride	102	103	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P429444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403664	Fluoride	101	98.6	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P429306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403854	Organic Carbon	101	101	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P429307

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401935	Organic Carbon	95.9	96.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P429093

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403647	Color (true)	7.33	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429115

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403613	Turbidity	7.58	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403614	Chloride	0.0609	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429488

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403614	Sulfate	0.684	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402635	Ammonia-N	1.84	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429255

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403689	Ammonia-N	0.749	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403689	Kjeldahl Nitrogen	2.60	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403602	Kjeldahl Nitrogen	8.89	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P429408

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403615	NO2NO3-N	0.378	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P429549

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403139	NO2NO3-N	0.473	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P429233

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403825	Total-P	0.0935	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P429308

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403601	Total-P	0.629	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P429562

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403370	Aldrin	7.03	Spike	P	0 - 41
2403370	Alpha-BHC	5.77	Spike	P	0 - 25
2403370	Alpha-Chlordane	7.96	Spike	P	0 - 33
2403370	Beta-BHC	5.54	Spike	P	0 - 36
2403370	Beta-Cyfluthrin	5.16	Spike	P	0 - 42
2403370	Bifenthrin	14.0	Spike	P	0 - 53
2403370	Carbophenothion	10.2	Spike	P	0 - 49
2403370	Chlorothalonil	10.9	Spike	P	0 - 71
2403370	Cis-Nonachlor	20.7	Spike	P	0 - 29
2403370	Cypermethrin	7.05	Spike	P	0 - 40
2403370	Dacthal	18.7	Spike	P	0 - 26
2403370	DDD-p,p'	7.78	Spike	P	0 - 39
2403370	DDE-p,p'	7.87	Spike	P	0 - 33
2403370	DDT-p,p'	0.941	Spike	P	0 - 40
2403370	Delta-BHC	4.05	Spike	P	0 - 37
2403370	Deltamethrin	15.4	Spike	P	0 - 100
2403370	Dichlobenil	8.61	Spike	P	0 - 40
2403370	Dicofol	12.6	Spike	P	0 - 31
2403370	Dieldrin	11.3	Spike	P	0 - 27
2403370	Endosulfan I	12.2	Spike	P	0 - 23
2403370	Endosulfan II	9.40	Spike	P	0 - 28
2403370	Endosulfan Sulfate	13.4	Spike	P	0 - 38
2403370	Endrin	16.2	Spike	P	0 - 63

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P429562

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403370	Endrin Aldehyde	0.0330	Spike	P	0 - 60
2403370	Endrin Ketone	11.2	Spike	P	0 - 37
2403370	Esfenvalerate	6.27	Spike	P	0 - 52
2403370	Ethalfuralin	3.75	Spike	P	0 - 23
2403370	Fenpropathrin	3.58	Spike	P	0 - 32
2403370	Gamma-BHC	14.7	Spike	P	0 - 17
2403370	Gamma-Chlordane	1.66	Spike	P	0 - 40
2403370	Heptachlor	41.0	Spike	F	0 - 29
2403370	Heptachlor Epoxide	8.86	Spike	P	0 - 25
2403370	Hexachlorobenzene	4.27	Spike	P	0 - 36
2403370	Kepone	23.8	Spike	P	0 - 93
2403370	Lambda-Cyhalothrin	7.78	Spike	P	0 - 55
2403370	Methoprene	8.90	Spike	P	0 - 53
2403370	Methoxychlor	0.603	Spike	P	0 - 29
2403370	MGK-264	9.30	Spike	P	0 - 35
2403370	Mirex	9.57	Spike	P	0 - 46
2403370	Oxychlordane	0.487	Spike	P	0 - 29
2403370	Permethrin	18.1	Spike	P	0 - 44
2403370	Phenothrin	0.837	Spike	P	0 - 56
2403370	Piperonyl Butoxide	16.4	Spike	P	0 - 100
2403370	Prallethrin	8.30	Spike	P	0 - 42
2403370	Tau-Fluvalinate	0.896	Spike	P	0 - 54
2403370	Tetramethrin	14.4	Spike	P	0 - 51
2403370	Trans-Nonachlor	2.99	Spike	P	0 - 37
2403370	Triclosan Methyl	8.37	Spike	P	0 - 31
2403370	Trifluralin	7.00	Spike	P	0 - 30
2403674	PCB-1016	0.710	Spike	P	0 - 32
2403674	PCB-1260	0.987	Spike	P	0 - 31

Reference Method: EPA 8276

Batch ID: P429562

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403674	Chlordane	4.04	Spike	P	0 - 25
2403674	Toxaphene	7.29	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P429064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403692	Acesulfame K	0.631	Spike	P	0 - 30
2403692	AMPA	5.78	Spike	P	0 - 30
2403692	Endothall	2.77	Spike	P	0 - 30
2403692	Glufosinate	5.28	Spike	P	0 - 30
2403692	Glyphosate	1.81	Spike	P	0 - 30
2403692	Sucralose	15.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P429258

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403675	2,4-D	6.31	Spike	P	0 - 30
2403675	2,4,5-T	3.12	Spike	P	0 - 30
2403675	Acetaminophen	4.06	Spike	P	0 - 30
2403675	Acetamiprid	6.41	Spike	P	0 - 30
2403675	Afidopyropen	4.21	Spike	P	0 - 30
2403675	Bentazon	10.9	Spike	P	0 - 30
2403675	Benzovindiflupyr	0.506	Spike	P	0 - 30
2403675	Carbamazepine	5.81	Spike	P	0 - 30
2403675	Clothianidin	1.03	Spike	P	0 - 30
2403675	Dinotefuran	2.22	Spike	P	0 - 30
2403675	Diuron	4.96	Spike	P	0 - 30
2403675	Fenuron	0.219	Spike	P	0 - 30
2403675	Fluridone	1.19	Spike	P	0 - 30
2403675	Hydrocodone	2.95	Spike	P	0 - 30
2403675	Ibuprofen	13.7	Spike	P	0 - 30
2403675	Imazapyr	2.30	Spike	P	0 - 30
2403675	Imidacloprid	0.536	Spike	P	0 - 30
2403675	Linuron	4.04	Spike	P	0 - 30
2403675	Mandestrobin	2.35	Spike	P	0 - 30
2403675	MCPP	12.5	Spike	P	0 - 30
2403675	Naproxen	1.85	Spike	P	0 - 30
2403675	Primidone	0.400	Spike	P	0 - 30
2403675	Pyraclostrobin	6.03	Spike	P	0 - 30
2403675	Silvex	3.21	Spike	P	0 - 30
2403675	Thiamethoxam	1.96	Spike	P	0 - 30
2403675	Tolfenpyrad	10.0	Spike	P	0 - 30
2403675	Triclopyr	4.08	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P429580

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404020	Total Alkalinity	1.30	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P429710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403853	TDS	0.692	Sample	P	0 - 10

Reference Method: SM 2540 D-2015

Batch ID: P429768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405536	TSS	6.19	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P429285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403612	Fluoride	0.527	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P429444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403664	Fluoride	1.49	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P429306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403854	Organic Carbon	0.257	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P429307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401935	Organic Carbon	0.0809	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2403674
Field Sample ID: G3SD0078

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	85.7	P	29 - 130
EPA 8270E	Decachlorobiphenyl	116	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	76.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	74.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	70.4	P	30 - 101
EPA 8276	PCNB	80.2	P	48 - 121

Lab Sample ID: 2403675
Field Sample ID: G3SD0136

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	109	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	77.9	P	30 - 160
EPA 8321B	Diuron-d6	64.9	P	30 - 160
EPA 8321B	Endothall-d6	81.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	66.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.3	P	30 - 160
EPA 8321B	Primidone-d5	95.8	P	30 - 160
EPA 8321B	Sucralose-d6	89.0	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A118826

Included Lab Sample IDs: 2403666

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.1	99.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118832

Included Lab Sample IDs: 2403664, 2403666

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

Reference Method: EPA 8321B

Run ID: A118862

Included Lab Sample IDs: 2403675

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	153	151	P/P	60 - 160
Sucralose	101	109	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A118863

Included Lab Sample IDs: 2403675

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	95.5	94.0	P/P	60 - 160
Endothall	84.9	83.3	P/P	60 - 160
Glufosinate	79.0	79.7	P/P	60 - 160
Glyphosate	101	97.5	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118900

Included Lab Sample IDs: 2403665, 2403667

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	99.3	P/P	90 - 110
Ammonia-N	99.3	99.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A118916

Included Lab Sample IDs: 2403666

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	103	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118919

Included Lab Sample IDs: 2403666

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A118925

Included Lab Sample IDs: 2403665, 2403667

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.1	106	P/P	90 - 110
Organic Carbon	99.8	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118936

Included Lab Sample IDs: 2403667

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118940

Included Lab Sample IDs: 2403667

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	99.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118952

Included Lab Sample IDs: 2403667

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	108	110	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118957

Included Lab Sample IDs: 2403665

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	98.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A118968

Included Lab Sample IDs: 2403664

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

Reference Method: EPA 8321B

Run ID: A118978

Included Lab Sample IDs: 2403675

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.5	94.7	P/P	50 - 150
2,4,5-T	103	103	P/P	50 - 150
Acetaminophen	95.6	85.2	P/P	60 - 160
Acetamiprid	104	109	P/P	50 - 150
Afidopyropen	103	93.4	P/P	50 - 150
Bentazon	132	105	P/P	50 - 160
Benzovindiflupyr	100	99.3	P/P	50 - 150
Carbamazepine	95.3	108	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A118978
Included Lab Sample IDs: 2403675

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Clothianidin	103	98.8	P/P	60 - 150
Dinotefuran	116	119	P/P	50 - 150
Diuron	107	106	P/P	60 - 160
Fenuron	107	95.3	P/P	60 - 150
Fluridone	101	106	P/P	60 - 160
Hydrocodone	104	109	P/P	60 - 150
Ibuprofen	101	84.5	P/P	50 - 160
Imazapyr	87.0	91.6	P/P	50 - 150
Imidacloprid	94.8	92.1	P/P	60 - 150
Linuron	114	97.1	P/P	60 - 150
Mandestrobin	101	100	P/P	50 - 150
MCPP	92.2	102	P/P	50 - 150
Naproxen	68.8	74.6	P/P	50 - 160
Primidone	99.8	102	P/P	60 - 150
Pyraclostrobin	105	105	P/P	60 - 150
Silvex	79.6	95.2	P/P	50 - 150
Thiamethoxam	103	97.2	P/P	50 - 150
Tolfenpyrad	99.5	97.7	P/P	60 - 150
Triclopyr	80.6	82.5	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118983
Included Lab Sample IDs: 2403665

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119011
Included Lab Sample IDs: 2403665

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

Reference Method: EPA 8270E
Run ID: A119024
Included Lab Sample IDs: 2403674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	91.9		P	80 - 120
Alpha-BHC	107		P	80 - 120
Alpha-Chlordane	91.6		P	80 - 120
Beta-BHC	112		P	80 - 120
Beta-Cyfluthrin	120		P	80 - 120
Bifenthrin	118		P	80 - 120
Carbophenothion	95.0		P	80 - 120
Chlorothalonil	101		P	80 - 120
Cis-Nonachlor	89.9		P	80 - 120
Cypermethrin	114		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119024
Included Lab Sample IDs: 2403674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDE-p,p'	118		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	104		P	80 - 120
Deltamethrin	86.6		P	80 - 120
Dichlobenil	113		P	80 - 120
Dicofol	94.0		P	80 - 120
Dieldrin	115		P	80 - 120
Endosulfan I	113		P	80 - 120
Endosulfan II	112		P	80 - 120
Endosulfan Sulfate	110		P	80 - 120
Endrin	109		P	80 - 120
Endrin Aldehyde	104		P	80 - 120
Endrin Ketone	110		P	80 - 120
Esfenvalerate	94.9		P	80 - 120
Ethalfuralin	107		P	80 - 120
Fenpropathrin	118		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	97.0		P	80 - 120
Heptachlor Epoxide	109		P	80 - 120
Hexachlorobenzene	99.2		P	80 - 120
Kepone	55.5*		F	80 - 120
Lambda-Cyhalothrin	120		P	80 - 120
Methoprene	97.1		P	80 - 120
Methoxychlor	97.5		P	80 - 120
MGK-264	120		P	80 - 120
Mirex	96.9		P	80 - 120
Oxychlordane	117		P	80 - 120
Permethrin	111		P	80 - 120
Phenothrin	119		P	80 - 120
Piperonyl Butoxide	96.9		P	80 - 120
Prallethrin	106		P	80 - 120
Tau-Fluvalinate	110		P	80 - 120
Tetramethrin	99.6		P	80 - 120
Trans-Nonachlor	92.4		P	80 - 120
Triclosan Methyl	108		P	80 - 120
Trifluralin	98.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119026
Included Lab Sample IDs: 2403674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.3		P	80 - 120
PCB-1260	102		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A119028
Included Lab Sample IDs: 2403664, 2403666

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

Reference Method: SM 2320 B-2011

Run ID: A119028

Included Lab Sample IDs: 2403664, 2403666

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.2	95.4	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A119044

Included Lab Sample IDs: 2403674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.2		P	80 - 120
Toxaphene	96.5		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)	97.1				7.33	
EPA 180.1 Rev. 2.0	Turbidity	99.2				7.58	
EPA 300.0 Rev. 2.1	Chloride	104	104	104		0.0609	
	Sulfate	104	102	103		0.684	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	98.8	101			1.84
	Ammonia-N	96.8	99.2	98.4			0.749
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.9	104	107			2.60
	Kjeldahl Nitrogen	96.9	104	94.0			8.89
EPA 353.2 Rev. 2.0	NO2NO3-N	108	108	108			0.378
	NO2NO3-N	106	106	106			0.473
EPA 365.1 Rev. 2.0	Total-P	97.5	98.9	99.0			0.0935
	Total-P	102	99.1	99.7			0.629
EPA 8270E	Aldrin	59.0	60.1	64.5			7.03
	Alpha-BHC	101	86.1	91.2			5.77
	Alpha-Chlordane	69.1	94.5	102			7.96
	Beta-BHC	71.5	110	117			5.54
	Beta-Cyfluthrin	62.4	121	115			5.16
	Bifenthrin	62.8	96.8	111			14.0
	Carbophenothion	92.7	67.0	74.2			10.2
	Chlorothalonil	50.1	77.7	86.7			10.9
	Cis-Nonachlor	57.9	49.8	61.2			20.7
	Cypermethrin	69.5	91.5	85.2			7.05
	Dacthal	106	74.3	89.6			18.7
	DDD-p,p'	57.7	120	129			7.78
	DDE-p,p'	88.9	110	101			7.87
	DDT-p,p'	73.9	86.8	87.6			0.941
	Delta-BHC	64.5	105	109			4.05
	Deltamethrin	61.4	93.3	109			15.4
	Dichlobenil	105	73.2	79.8			8.61
	Dicofol	62.9	74.7	65.8			12.6
	Dieldrin	94.7	98.7	88.1			11.3
	Endosulfan I	76.2	71.9	81.3			12.2
	Endosulfan II	78.8	81.7	89.8			9.40
	Endosulfan Sulfate	82.4	103	118			13.4
	Endrin	69.7	53.5	62.9			16.2
	Endrin Aldehyde	62.0	46.2	46.2			0.0330
	Endrin Ketone	75.6	121	108			11.2
	Esfenvalerate	51.6	97.4	104			6.27
	Ethalfuralin	79.9	79.1	76.2			3.75
	Fenpropathrin	67.5	86.1	83.0			3.58
	Gamma-BHC	81.8	90.0	104			14.7
	Gamma-Chlordane	61.0	91.4	89.9			1.66
	Heptachlor	75.0	80.9	123			41.0
	Heptachlor Epoxide	57.7	88.1	96.2			8.86
	Hexachlorobenzene	51.0	68.6	65.7			4.27
	Kepone	116	73.1	92.9			23.8
	Lambda-Cyhalothrin	65.4	142	131			7.78
	Methoprene	57.4	71.5	78.2			8.90
	Methoxychlor	76.4	105	105			0.603
	MGK-264	61.1	69.1	75.8			9.30
	Mirex	61.5	71.4	78.6			9.57
	Oxychlordane	83.7	74.9	74.6			0.487
	PCB-1016	61.5	78.4	79.0			0.710
	PCB-1260	61.2	66.1	66.8			0.987

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Permethrin	103	148	124			18.1
	Phenothrin	44.2	99.3	98.4			0.837
	Piperonyl Butoxide	69.8	48.2	56.8			16.4
	Prallethrin	93.4	83.1	76.5			8.30
	Tau-Fluvalinate	46.8	120	118			0.896
	Tetramethrin	79.5	88.8	103			14.4
	Trans-Nonachlor	72.8	74.5	72.3			2.99
	Triclosan Methyl	79.4	70.2	76.4			8.37
	Trifluralin	73.6	73.8	79.2			7.00
EPA 8276	Chlordane	73.4	87.3	90.9			4.04
	Toxaphene	85.1	96.6	104			7.29
EPA 8321B	2,4-D	85.2	104	111			6.31
	2,4,5-T	83.2	108	105			3.12
	Acesulfame K	145	134	133			0.631
	Acetaminophen	78.2	84.2	87.7			4.06
	Acetamiprid	79.9	84.2	78.9			6.41
	Afidopyropen	49.8	92.3	88.5			4.21
	AMPA	86.1	82.7	78.1			5.78
	Bentazon	141					10.9
	Benzovindiflupyr	81.6	80.6	80.2			0.506
	Carbamazepine	83.9	71.6	67.3			5.81
	Clothianidin	86.8	105	104			1.03
	Dinotefuran	105	104	102			2.22
	Diuron	77.1	65.6	62.4			4.96
	Endothall	76.9	82.8	80.5			2.77
	Fenuron	87.0	63.5	63.4			0.219
	Fluridone	77.1	61.3	62.1			1.19
	Glufosinate	66.6	70.8	67.2			5.28
	Glyphosate	90.2	82.4	83.9			1.81
	Hydrocodone	86.5	71.9	69.9			2.95
	Ibuprofen	91.0	60.5	52.8			13.7
	Imazapyr	84.2	105	108			2.30
	Imidacloprid	83.9	115	116			0.536
	Linuron	81.2	70.3	67.5			4.04
	Mandestrobin	86.4	77.7	79.5			2.35
	MCPP	87.7	121	106			12.5
	Naproxen	77.0	57.1	56.0			1.85
	Primidone	85.2	96.7	97.0			0.400
	Pyraclostrobin	85.6	81.5	76.8			6.03
	Silvex	81.7	114	118			3.21
	Sucralose	105	112	91.4			15.9
	Thiamethoxam	88.4	101	99.4			1.96
	Tolfenpyrad	55.3	54.5	49.3			10.0
	Triclopyr	85.9	101	105			4.08
SM 2320 B-2011	Total Alkalinity	98.1				1.30	
SM 2540 C-2015	TDS	97.4				0.692	
SM 2540 D-2015	TSS	93.8					
	TSS	96.9				6.19	
SM 4500-F- C-2011	Fluoride	99.3	102	103			0.527
	Fluoride	100	101	98.6			1.49
SM 5310 B-2011	Organic Carbon	103	101	101			0.257
	Organic Carbon	105	95.9	96.0			0.0809

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2403666
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2403664, 2403666
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2403666
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2403666
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2403665, 2403667
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2403665, 2403667
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2403665, 2403667
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2403665, 2403667
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2403674
EPA 8270E	PCBs in water matrices by GC/MS/MS	2403674
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2403674
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2403675
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2403664, 2403666
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2403666
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2403664, 2403666
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2403664, 2403666
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2403665, 2403667

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	04/27/2023			04/27/2023 13:31	Samantha L Bates	2403666
EPA 180.1 Rev. 2.0	04/27/2023			04/27/2023 14:13	Anna M. Plaviak	2403664
	04/27/2023			04/27/2023 14:14	Anna M. Plaviak	2403666
EPA 300.0 Rev. 2.1	04/27/2023			05/04/2023 07:37	James L Waggeberby	2403666
EPA 350.1 Rev. 2.0	04/27/2023			05/02/2023 12:27	Ping Hua	2403665
	04/27/2023			05/02/2023 12:43	Ping Hua	2403667
EPA 351.2 Rev. 2.0	04/27/2023	05/01/2023 13:37	Simonne.V. Calhoun	05/03/2023 14:07	Samantha L Bates	2403667
	04/27/2023	05/04/2023 13:37	Dana G. Hughes	05/05/2023 11:19	Ping Hua	2403665
EPA 353.2 Rev. 2.0	04/27/2023			05/04/2023 10:19	Beverly Y. Sanders	2403667
	04/27/2023			05/04/2023 15:32	Anna M. Plaviak	2403665
EPA 365.1 Rev. 2.0	04/27/2023	05/02/2023 15:26	Adam P Silver	05/03/2023 13:00	Simonne.V. Calhoun	2403667
	04/27/2023	05/03/2023 12:11	Adam P Silver	05/04/2023 13:55	James L Waggeberby	2403665
EPA 8270E	04/27/2023	05/02/2023 08:00	Rasheda Ghaffari	05/06/2023 00:55	Michael Poppell	2403674
	04/27/2023	05/02/2023 08:00	Rasheda Ghaffari	05/07/2023 21:25	Michael Poppell	2403674
EPA 8276	04/27/2023	05/02/2023 08:00	Rasheda Ghaffari	05/05/2023 07:27	Arthur Maknenko	2403674
EPA 8321B	04/27/2023	04/28/2023 09:00	Manjita Shrestha	04/28/2023 18:16	Manjita Shrestha	2403675
	04/27/2023	04/28/2023 09:00	Manjita Shrestha	04/29/2023 07:24	Manjita Shrestha	2403675
	04/27/2023	05/03/2023 09:00	Hoor Shaik	05/04/2023 18:46	Juyoung Kim	2403675
	04/27/2023	05/03/2023 09:00	Hoor Shaik	05/05/2023 11:02	Juyoung Kim	2403675
SM 2320 B-2011	04/27/2023			05/09/2023 00:57	Dale L. Simmons	2403666
	04/27/2023			05/09/2023 02:20	Dale L. Simmons	2403664
SM 2540 C-2015	04/27/2023			04/28/2023 13:45	Dana G. Hughes	2403666
SM 2540 D-2015	04/27/2023			04/28/2023 13:45	Dana G. Hughes	2403666
	04/27/2023			05/05/2023 16:02	Yijie Li	2403664
SM 4500-F- C-2011	04/27/2023			05/03/2023 01:32	Dale L. Simmons	2403666
	04/27/2023			05/05/2023 03:30	Adam P Silver	2403664
SM 5310 B-2011	04/27/2023			05/02/2023 19:15	Elise M. Gillis	2403667
	04/27/2023			05/03/2023 05:22	Elise M. Gillis	2403665