

Chemical Analysis Report

NW-DIST-2022-02-24-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Western Lake Run**
Request ID: **RQ-2022-02-14-57**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 21-MAR-2022 10:08



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: Pond Creek West of Headwaters of Blackwater Bay **Collection Date/Time: 02/23/2022 11:15**

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2307892	EPA 8270E	Aldrin	0.69	U	ng/L	P410328	
		Alpha-BHC	0.11	U	ng/L	P410328	
		Alpha-Chlordane	0.21	U	ng/L	P410328	
		PCB-1016	2.1	U	ng/L	P410328	
		Beta-BHC	0.11	U	ng/L	P410328	
		PCB-1221	2.1	U	ng/L	P410328	
		Beta-Cyfluthrin**	1.3	U	ng/L	P410328	
		PCB-1232	2.1	U	ng/L	P410328	
		Bifenthrin**	0.53	U	ng/L	P410328	
		PCB-1242	2.1	U	ng/L	P410328	
		Carbophenothion	0.96	U	ng/L	P410328	
		PCB-1248	2.1	U	ng/L	P410328	
		Chlorothalonil	1.3	U	ng/L	P410328	
		PCB-1254	2.1	U	ng/L	P410328	
		Cis-Nonachlor**	0.21	U	ng/L	P410328	
		PCB-1260	2.1	U	ng/L	P410328	
		Cypermethrin	1.6	U	ng/L	P410328	
		Dacthal**	0.16	U	ng/L	P410328	
		DDD-p,p'	0.27	U	ng/L	P410328	
		DDE-p,p'	0.21	U	ng/L	P410328	
		DDT-p,p'	0.27	U	ng/L	P410328	
		Delta-BHC	0.43	U	ng/L	P410328	
		Deltamethrin**	1.3	U	ng/L	P410328	
		Dichlobenil**	0.27	U	ng/L	P410328	
		Dicofol	1.3	U	ng/L	P410328	
		Dieldrin	0.72	I	ng/L	P410328	
		Endosulfan I	0.43	U	ng/L	P410328	
		Endosulfan II	0.43	U	ng/L	P410328	
		Endosulfan Sulfate	0.32	U	ng/L	P410328	
		Endrin	0.43	UQ	ng/L	P411150	
		Endrin Aldehyde	0.80	U	ng/L	P410328	
		Endrin Ketone	0.43	UJ	ng/L	P410328	LCS, MS
		Esfenvalerate**	0.80	U	ng/L	P410328	
		Ethalfuralin**	0.16	U	ng/L	P410328	
		Fenpropathrin**	0.27	U	ng/L	P410328	
		Gamma-BHC	0.13	U	ng/L	P410328	
		Gamma-Chlordane	0.21	U	ng/L	P410328	
		Heptachlor	0.21	U	ng/L	P410328	
		Heptachlor Epoxide	0.27	U	ng/L	P410328	
		Hexachlorobenzene	1.1	U	ng/L	P410328	
		Kepone**	5.3	UJ	ng/L	P410328	CCV
		Lambda-Cyhalothrin**	0.80	U	ng/L	P410328	
		Methoprene**	0.80	UQ	ng/L	P411150	

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2307892	EPA 8270E	Methoxychlor	0.32	U	ng/L	P410328	
		MGK-264**	0.21	U	ng/L	P410328	
		Mirex	0.75	U	ng/L	P410328	
		Oxychlordan**	0.32	U	ng/L	P410328	
		Permethrin	1.7	U	ng/L	P410328	
		Phenothrin**	0.96	U	ng/L	P410328	
		Piperonyl Butoxide**	0.16	UQ	ng/L	P411150	
		Prallethrin**	2.1	U	ng/L	P410328	
		Tau-Fluvalinate**	0.27	U	ng/L	P410328	
		Tetramethrin**	0.80	U	ng/L	P410328	
		Trans-Nonachlor**	0.21	U	ng/L	P410328	
		Triclosan Methyl**	0.16	U	ng/L	P410328	
		Trifluralin	0.21	U	ng/L	P410328	
		Chlordane	2.7	U	ng/L	P410328	RPD
		Toxaphene	16	U	ng/L	P410328	RPD
2307893	EPA 8321B	2,4-D	0.0020	U	ug/L	P410241	
		Acesulfame K	0.10	U	ug/L	P410426	
		2,4,5-T	0.0040	U	ug/L	P410241	
		AMPA	0.10	U	ug/L	P410426	
		Acetaminophen	0.0080	U	ug/L	P410241	
		Acetamiprid	0.0020	U	ug/L	P410241	
		Endothall	0.25	U	ug/L	P410426	
		Glufosinate	0.10	U	ug/L	P410426	
		Glyphosate	0.10	U	ug/L	P410426	
		Afidopyropen	0.0020	U	ug/L	P410241	
		Bentazon	8.0E-04	U	ug/L	P410241	
		Sucralose	0.31		ug/L	P410426	
		Benzovindiflupyr	0.0020	U	ug/L	P410241	
		Carbamazepine	8.0E-04	U	ug/L	P410241	
		Clothianidin	0.0020	U	ug/L	P410241	
		Dinotefuran	0.0020	U	ug/L	P410241	
		Diuron	0.0020	U	ug/L	P410241	
		Fenuron	0.016	U	ug/L	P410241	
		Fluridone	8.0E-04	U	ug/L	P410241	
		Imazapyr	0.0040	U	ug/L	P410241	
		Hydrocodone	0.0020	U	ug/L	P410241	
		Ibuprofen	0.020	U	ug/L	P410241	
		Imidacloprid	0.017		ug/L	P410241	MS
		Linuron	0.0040	U	ug/L	P410241	
		Mandestrobin	0.0020	U	ug/L	P410241	
		MCPP	0.0020	U	ug/L	P410241	
		Naproxen	0.0080	U	ug/L	P410241	
		Primidone	0.0040	U	ug/L	P410241	
		Pyraclostrobin	0.0020	U	ug/L	P410241	
		Silvex	0.0040	U	ug/L	P410241	

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2307893	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P410241	MS
		Tolfenpyrad	0.0020	U	ug/L	P410241	
		Triclopyr	0.0040	U	ug/L	P410241	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes. Sample expired for preparation for some analytes due to need for re-extraction.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Locklin Lake Center

Collection Date/Time: 02/23/2022 12:20

Field ID: G4NW0437

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2307871	DEP SOP: NU-094-1	Color (true)**	4.6	I	PCU	P410371	
	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P410323	
	EPA 300.0 Rev. 2.1	Chloride	5.5		mg Cl/L	P410516	
		Sulfate	1.5		mg SO4/L	P410517	
	SM 2320 B-2011	Total Alkalinity	8.7		mg CaCO3/L	P410660	
	SM 2540 C-2011	TDS	25		mg/L	P410775	
	SM 2540 D-2011	TSS	34		mg/L	P410804	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P410663	
2307872	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P410628	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P410345	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.55		mg N/L	P410666	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P410535	
	SM 5310 B-2011	Organic Carbon	1.5		mg C/L	P410697	
2307873	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P410319	

Ref. Method and Comment:

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

EPA 300.0 Rev. 2.1: Chloride: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 02/23/2022 12:30

Field ID: FB_02232022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2307874	DEP SOP: NU-094-1	Color (true)**	2.5	U	PCU	P410369	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P410323	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P410516	
		Sulfate	0.20	U	mg SO4/L	P410517	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P410660	
	SM 2540 C-2011	TDS	15	U	mg/L	P410773	
	SM 2540 D-2011	TSS	2	U	mg/L	P410802	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P410663	
2307875	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P410628	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P410345	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410666	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P410535	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P410697	
2307876	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P410319	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Chloride: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P410369

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P410371

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410323

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410516

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410517

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410628

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410345

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410666

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410535

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410319

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P410328

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	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410328

Component	Result	Code	Units
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
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	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410328

Component	Result	Code	Units
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 8270E

Batch ID: P411150

Component	Result	Code	Units
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L

Reference Method: EPA 8276

Batch ID: P410328

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

Reference Method: EPA 8321B

Batch ID: P410241

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P410241

Component	Result	Code	Units
MCPPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P410426

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: SM 2320 B-2011

Batch ID: P410660

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

Reference Method: SM 2540 C-2011

Batch ID: P410773

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011

Batch ID: P410775

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P410802

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P410804

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P410663

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410697

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: P410369

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P410371

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	103		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410323

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410516

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410517

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410628

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410345

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410666

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410535

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410319

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.5		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P410328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.9		P	10 - 93.0
Alpha-BHC	96.4		P	75 - 106
Alpha-Chlordane	86.8		P	50 - 109
Beta-BHC	110		P	65 - 135
Beta-Cyfluthrin	105		P	23 - 167
Bifenthrin	93.5		P	11 - 123
Carbophenothion	48.7		P	18 - 96.0
Chlorothalonil	54.3		P	26 - 182
Cis-Nonachlor	79.6		P	40 - 111
Cypermethrin	114		P	25 - 155
Dacthal	98.2		P	73 - 112
DDD-p,p'	82.2		P	47 - 108
DDE-p,p'	82.9		P	48 - 107
DDT-p,p'	87.3		P	49 - 111
Delta-BHC	117		P	68 - 143
Deltamethrin	71.3		P	16 - 176
Dichlobenil	93.6		P	32 - 113
Dicofol	92.7		P	50 - 108
Dieldrin	76.9		P	56 - 110
Endosulfan I	85.3		P	60 - 105
Endosulfan II	88.5		P	50 - 120
Endosulfan Sulfate	101		P	55 - 121
Endrin Aldehyde	62.1		P	36 - 116
Endrin Ketone	177		F	56 - 130
Esfenvalerate	106		P	10 - 179
Ethalfuralin	81.5		P	49 - 99.0
Fenpropathrin	74.4		P	35 - 119
Gamma-BHC	99.9		P	72 - 115
Gamma-Chlordane	85.0		P	45 - 107
Heptachlor	78.9		P	41 - 100
Heptachlor Epoxide	95.9		P	58 - 106
Hexachlorobenzene	83.9		P	39 - 100
Kepone	155		P	10 - 191
Lambda-Cyhalothrin	102		P	10 - 186
Methoxychlor	108		P	61 - 111
MGK-264	77.9		P	20 - 123
Mirex	68.4		P	10 - 182
Oxychlordane	81.7		P	39 - 110
PCB-1016	84.6		P	49 - 111
PCB-1260	90.5		P	42 - 116
Permethrin	105		P	26 - 152
Phenothrin	49.8		P	10 - 109
Prallethrin	40.2		P	14 - 109
Tau-Fluvalinate	94.0		P	16 - 134
Tetramethrin	18.2		P	10 - 125
Trans-Nonachlor	85.1		P	45 - 107

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P410328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclosan Methyl	87.6		P	60 - 110
Trifluralin	82.4		P	49 - 98.0

Reference Method: EPA 8270E
Batch ID: P411150

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	57.8		P	31 - 119
Methoprene	23.9		P	10 - 129
Piperonyl Butoxide	80.4		P	27 - 142

Reference Method: EPA 8276
Batch ID: P410328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	93.2		P	61 - 118
Toxaphene	81.2		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P410241

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	108		P	30 - 160
2,4,5-T	76.9		P	30 - 160
Acetaminophen	77.4		P	30 - 150
Acetamiprid	92.8		P	30 - 160
Afidopyropen	69.4		P	30 - 160
Bentazon	38.8		P	30 - 150
Benzovindiflupyr	91.3		P	30 - 160
Carbamazepine	100		P	30 - 160
Clothianidin	102		P	30 - 160
Dinotefuran	106		P	30 - 160
Diuron	88.0		P	30 - 160
Fenuron	125		P	30 - 160
Fluridone	108		P	30 - 160
Hydrocodone	102		P	30 - 160
Ibuprofen	90.5		P	30 - 160
Imazapyr	105		P	30 - 160
Imidacloprid	108		P	30 - 160
Linuron	95.0		P	30 - 160
Mandestrobin	99.6		P	30 - 160
MCPP	122		P	30 - 160
Naproxen	83.1		P	30 - 160
Primidone	77.4		P	30 - 160
Pyraclostrobin	87.4		P	30 - 160
Silvex	77.6		P	30 - 160
Thiamethoxam	102		P	30 - 160
Tolfenpyrad	46.5		P	30 - 160
Triclopyr	79.0		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P410426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.8		P	40 - 150
AMPA	105		P	40 - 150
Endothall	92.3		P	40 - 150
Glufosinate	111		P	40 - 150
Glyphosate	98.3		P	40 - 150
Sucralose	126		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P410660

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.7		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P410663

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410697

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307923	Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307913	Sulfate	99.4		P	90 - 110
2307923	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307872	Ammonia-N	98.2	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410345

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307775	Kjeldahl Nitrogen	101	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307851	NO2NO3-N	99.8	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410319

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307873	O-Phosphate-P	99.4	101	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P410328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307892	Aldrin	47.3	44.4	P/P	10 - 89.0
2307892	Alpha-BHC	87.0	82.3	P/P	71 - 105
2307892	Alpha-Chlordane	74.8	69.6	P/P	43 - 107
2307892	Beta-BHC	101	96.2	P/P	57 - 152
2307892	Beta-Cyfluthrin	104	101	P/P	29 - 186
2307892	Bifenthrin	81.2	81.4	P/P	19 - 119
2307892	Carbophenothion	44.7	44.6	P/P	19 - 107
2307892	Chlorothalonil	154	159	P/P	10 - 245
2307892	Cis-Nonachlor	65.5	56.8	P/P	36 - 110
2307892	Cypermethrin	115	102	P/P	24 - 169
2307892	Dacthal	83.9	81.9	P/P	62 - 115
2307892	DDD-p,p'	68.1	65.8	P/P	36 - 109
2307892	DDE-p,p'	66.3	64.0	P/P	30 - 114
2307892	DDT-p,p'	73.3	70.4	P/P	42 - 108
2307892	Delta-BHC	112	105	P/P	60 - 164

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P410328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307892	Deltamethrin	56.0	62.1	P/P	10 - 210
2307892	Dichlobenil	74.9	75.3	P/P	23 - 108
2307892	Dicofol	78.7	72.6	P/P	44 - 109
2307892	Dieldrin	69.6	61.0	P/P	37 - 119
2307892	Endosulfan I	70.9	65.9	P/P	52 - 105
2307892	Endosulfan II	75.2	70.4	P/P	35 - 127
2307892	Endosulfan Sulfate	83.0	71.1	P/P	39 - 130
2307892	Endrin Aldehyde	22.9	34.0	P/P	20 - 110
2307892	Endrin Ketone	126	139	P/F	48 - 134
2307892	Esfenvalerate	97.1	94.2	P/P	10 - 199
2307892	Ethalfuralin	68.2	66.0	P/P	48 - 95.0
2307892	Fenpropathrin	75.9	74.7	P/P	37 - 121
2307892	Gamma-BHC	89.8	87.0	P/P	61 - 126
2307892	Gamma-Chlordane	73.0	71.3	P/P	39 - 105
2307892	Heptachlor	68.7	64.2	P/P	38 - 96.0
2307892	Heptachlor Epoxide	96.4	76.9	P/P	42 - 114
2307892	Hexachlorobenzene	72.6	69.5	P/P	39 - 93.0
2307892	Kepone	142	135	P/P	10 - 215
2307892	Lambda-Cyhalothrin	104	117	P/P	10 - 204
2307892	Methoxychlor	100	91.5	P/P	56 - 115
2307892	MGK-264	65.4	65.5	P/P	35 - 120
2307892	Mirex	64.3	60.0	P/P	10 - 178
2307892	Oxychlordane	65.2	68.5	P/P	47 - 91.0
2307892	Permethrin	99.9	94.0	P/P	27 - 170
2307892	Phenothrin	60.6	53.8	P/P	10 - 133
2307892	Prallethrin	44.7	46.2	P/P	21 - 113
2307892	Tau-Fluvalinate	99.7	96.5	P/P	16 - 158
2307892	Tetramethrin	37.5	42.7	P/P	22 - 132
2307892	Trans-Nonachlor	68.0	67.0	P/P	43 - 102
2307892	Triclosan Methyl	69.2	65.5	P/P	49 - 109
2307892	Trifluralin	71.0	67.4	P/P	48 - 93.0
2307902	PCB-1016	79.3	64.5	P/P	46 - 110
2307902	PCB-1260	93.4	79.2	P/P	42 - 111

Reference Method: EPA 8270E
Batch ID: P411150

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308510	Endrin	79.0	68.2	P/P	30 - 116
2308510	Methoprene	63.7	64.9	P/P	17 - 108
2308510	Piperonyl Butoxide	84.6	69.5	P/P	23 - 150

Reference Method: EPA 8276
Batch ID: P410328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307902	Chlordane	85.2	64.9	P/P	55 - 128
2307902	Toxaphene	88.5	64.5	P/P	57 - 211

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P410241

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306763	2,4-D	129	125	P/P	30 - 160
2306763	2,4,5-T	97.4	114	P/P	30 - 160
2306763	Acetaminophen	89.8	77.2	P/P	30 - 150
2306763	Acetamiprid	97.5	87.0	P/P	30 - 160
2306763	Afidopyropen	77.6	65.6	P/P	30 - 160
2306763	Benzovindiflupyr	107	86.3	P/P	30 - 160
2306763	Carbamazepine	108	95.8	P/P	30 - 160
2306763	Clothianidin	109	92.0	P/P	30 - 160
2306763	Dinotefuran	143	117	P/P	30 - 160
2306763	Diuron	87.0	77.6	P/P	30 - 160
2306763	Fenuron	125	104	P/P	30 - 160
2306763	Fluridone	121	108	P/P	30 - 160
2306763	Hydrocodone	108	97.4	P/P	30 - 160
2306763	Ibuprofen	87.3	73.7	P/P	30 - 160
2306763	Imazapyr	119	91.5	P/P	30 - 160
2306763	Imidacloprid	222	195	F/F	30 - 160
2306763	Linuron	97.1	97.4	P/P	30 - 160
2306763	Mandestrobin	112	100	P/P	30 - 160
2306763	MCCP	135	135	P/P	30 - 160
2306763	Naproxen	82.2	73.1	P/P	30 - 160
2306763	Primidone	114	84.6	P/P	30 - 160
2306763	Pyraclostrobin	108	90.9	P/P	30 - 160
2306763	Silvex	106	116	P/P	30 - 160
2306763	Thiamethoxam	166	152	F/P	30 - 160
2306763	Tolfenpyrad	65.7	55.4	P/P	30 - 160
2306763	Triclopyr	104	100	P/P	30 - 160

Reference Method: EPA 8321B

Batch ID: P410426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307763	Acesulfame K	101	101	P/P	40 - 150
2307763	AMPA	119	126	P/P	40 - 150
2307763	Endothall	93.8	93.7	P/P	40 - 150
2307763	Glufosinate	103	114	P/P	40 - 150
2307763	Glyphosate	92.6	99.0	P/P	40 - 150
2307763	Sucralose	114	121	P/P	40 - 150

Reference Method: SM 4500 F-C-2011

Batch ID: P410663

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307772	Fluoride	94.9	94.4	P/P	92 - 107

Reference Method: SM 5310 B-2011

Batch ID: P410697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307883	Organic Carbon	96.0	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P410369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307915	Color (true)	1.81	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307756	Turbidity	3.64	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307913	Chloride	0.640	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307913	Sulfate	0.689	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307872	Ammonia-N	3.18	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410345

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307775	Kjeldahl Nitrogen	2.15	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307851	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307857	Total-P	0.153	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410319

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307873	O-Phosphate-P	1.79	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P410328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307892	Aldrin	6.38	Spike	P	0 - 37
2307892	Alpha-BHC	5.52	Spike	P	0 - 16
2307892	Alpha-Chlordane	7.13	Spike	P	0 - 28
2307892	Beta-BHC	4.64	Spike	P	0 - 32
2307892	Beta-Cyfluthrin	2.64	Spike	P	0 - 41
2307892	Bifenthrin	0.265	Spike	P	0 - 36
2307892	Carbophenothion	0.143	Spike	P	0 - 81
2307892	Chlorothalonil	3.02	Spike	P	0 - 54
2307892	Cis-Nonachlor	14.1	Spike	P	0 - 33
2307892	Cypermethrin	12.3	Spike	P	0 - 38
2307892	Dacthal	2.43	Spike	P	0 - 23
2307892	DDD-p,p'	3.49	Spike	P	0 - 35
2307892	DDE-p,p'	3.49	Spike	P	0 - 27
2307892	DDT-p,p'	4.04	Spike	P	0 - 31
2307892	Delta-BHC	6.02	Spike	P	0 - 30
2307892	Deltamethrin	10.4	Spike	P	0 - 76
2307892	Dichlobenil	0.531	Spike	P	0 - 33
2307892	Dicofol	8.11	Spike	P	0 - 24
2307892	Dieldrin	12.1	Spike	P	0 - 35
2307892	Endosulfan I	7.31	Spike	P	0 - 25
2307892	Endosulfan II	6.66	Spike	P	0 - 31
2307892	Endosulfan Sulfate	15.5	Spike	P	0 - 38
2307892	Endrin Aldehyde	39.2	Spike	P	0 - 81
2307892	Endrin Ketone	10.2	Spike	P	0 - 33
2307892	Esfenvalerate	2.95	Spike	P	0 - 46
2307892	Ethalfuralin	3.29	Spike	P	0 - 22
2307892	Fenpropathrin	1.59	Spike	P	0 - 29
2307892	Gamma-BHC	3.14	Spike	P	0 - 17
2307892	Gamma-Chlordane	2.32	Spike	P	0 - 28
2307892	Heptachlor	6.71	Spike	P	0 - 28
2307892	Heptachlor Epoxide	22.6	Spike	P	0 - 23
2307892	Hexachlorobenzene	4.35	Spike	P	0 - 22
2307892	Kepone	4.95	Spike	P	0 - 61
2307892	Lambda-Cyhalothrin	12.1	Spike	P	0 - 52
2307892	Methoxychlor	9.11	Spike	P	0 - 29
2307892	MGK-264	0.193	Spike	P	0 - 41
2307892	Mirex	6.97	Spike	P	0 - 39
2307892	Oxychlordane	4.99	Spike	P	0 - 33
2307892	Permethrin	6.05	Spike	P	0 - 39
2307892	Phenothrin	12.0	Spike	P	0 - 52
2307892	Prallethrin	3.21	Spike	P	0 - 34
2307892	Tau-Fluvalinate	3.22	Spike	P	0 - 41
2307892	Tetramethrin	13.1	Spike	P	0 - 43
2307892	Trans-Nonachlor	1.57	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307892	Triclosan Methyl	5.56	Spike	P	0 - 24
2307892	Trifluralin	5.18	Spike	P	0 - 23
2307902	PCB-1016	20.6	Spike	P	0 - 22
2307902	PCB-1260	16.4	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P411150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308510	Endrin	14.7	Spike	P	0 - 53
2308510	Methoprene	1.86	Spike	P	0 - 38
2308510	Piperonyl Butoxide	15.5	Spike	P	0 - 91

Reference Method: EPA 8276
Batch ID: P410328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307902	Chlordane	27.0	Spike	F	0 - 25
2307902	Toxaphene	31.3	Spike	F	0 - 24

Reference Method: EPA 8321B
Batch ID: P410241

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306763	2,4-D	2.47	Spike	P	0 - 30
2306763	2,4,5-T	15.4	Spike	P	0 - 30
2306763	Acetaminophen	15.1	Spike	P	0 - 30
2306763	Acetamiprid	11.4	Spike	P	0 - 30
2306763	Afidopyropen	16.8	Spike	P	0 - 30
2306763	Bentazon	1.31	Spike	P	0 - 30
2306763	Benzovindiflupyr	21.5	Spike	P	0 - 30
2306763	Carbamazepine	12.0	Spike	P	0 - 30
2306763	Clothianidin	17.2	Spike	P	0 - 30
2306763	Dinotefuran	20.0	Spike	P	0 - 30
2306763	Diuron	11.4	Spike	P	0 - 30
2306763	Fenuron	19.0	Spike	P	0 - 30
2306763	Fluridone	11.0	Spike	P	0 - 30
2306763	Hydrocodone	10.0	Spike	P	0 - 30
2306763	Ibuprofen	16.9	Spike	P	0 - 30
2306763	Imazapyr	13.8	Spike	P	0 - 30
2306763	Imidacloprid	13.1	Spike	P	0 - 30
2306763	Linuron	0.248	Spike	P	0 - 30
2306763	Mandestrobin	11.3	Spike	P	0 - 30
2306763	MCP	0.504	Spike	P	0 - 30
2306763	Naproxen	11.7	Spike	P	0 - 30
2306763	Primidone	29.4	Spike	P	0 - 30
2306763	Pyraclostrobin	17.4	Spike	P	0 - 30
2306763	Silvex	9.36	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P410241

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306763	Thiamethoxam	9.07	Spike	P	0 - 30
2306763	Tolfenpyrad	17.1	Spike	P	0 - 30
2306763	Triclopyr	3.32	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P410426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307763	Acesulfame K	0.540	Spike	P	0 - 30
2307763	AMPA	5.45	Spike	P	0 - 30
2307763	Endothall	0.107	Spike	P	0 - 30
2307763	Glufosinate	10.2	Spike	P	0 - 30
2307763	Glyphosate	6.70	Spike	P	0 - 30
2307763	Sucralose	5.34	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P410660

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307772	Total Alkalinity	1.80	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P410773

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307333	TDS	2.22	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P410775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307773	TDS	3.17	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P410663

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307772	Fluoride	0.498	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410697

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307883	Organic Carbon	0.581	Spike	P	0 - 20

Quality Assurance Report Precision

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

Quality Assurance Report Surrogates

Lab Sample ID: 2307892

Field Sample ID: G4NW0277

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.2	P	38 - 115
EPA 8270E	Decachlorobiphenyl	79.8	P	31 - 118
EPA 8270E	Decachlorobiphenyl	50.7	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	70.2	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	71.3	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	44.4	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	61.0	P	30 - 97.0
EPA 8276	PCNB	72.3	P	45 - 119

Lab Sample ID: 2307893

Field Sample ID: G4NW0277

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	84.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	116	P	30 - 160
EPA 8321B	Diuron-d6	99.8	P	30 - 160
EPA 8321B	Endothall-d6	90.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.3	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110603

Included Lab Sample IDs: 2307873, 2307876

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110604

Included Lab Sample IDs: 2307871, 2307874

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: A110629

Included Lab Sample IDs: 2307871, 2307874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	106	104	P/P	85 - 115
Color (true)	107	105	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A110643

Included Lab Sample IDs: 2307893

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.1	112	P/P	50 - 150
2,4,5-T	125	127	P/P	50 - 150
Acetaminophen	117	110	P/P	60 - 160
Acetamiprid	109	110	P/P	50 - 150
Afidopyropen	114	103	P/P	50 - 150
Bentazon	105	106	P/P	50 - 160
Benzovindiflupyr	103	109	P/P	50 - 160
Carbamazepine	111	105	P/P	60 - 150
Clothianidin	108	99.4	P/P	60 - 150
Dinotefuran	110	109	P/P	50 - 150
Diuron	101	110	P/P	60 - 160
Fenuron	109	113	P/P	60 - 150
Fluridone	114	122	P/P	60 - 160
Hydrocodone	109	114	P/P	60 - 150
Ibuprofen	98.6	95.5	P/P	50 - 160
Imazapyr	111	111	P/P	50 - 150
Imidacloprid	96.1	103	P/P	60 - 150
Linuron	122	127	P/P	60 - 150
Mandestrobin	107	113	P/P	50 - 150
MCPP	117	115	P/P	50 - 150
Naproxen	77.6	147	P/P	50 - 160
Primidone	94.7	88.0	P/P	60 - 150
Pyraclostrobin	120	114	P/P	60 - 150
Silvex	98.2	106	P/P	50 - 150
Thiamethoxam	115	106	P/P	50 - 150
Tolfenpyrad	127	121	P/P	60 - 150
Triclopyr	104	128	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110693

Included Lab Sample IDs: 2307871, 2307874

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

Reference Method: EPA 8321B

Run ID: A110698

Included Lab Sample IDs: 2307893

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	101	104	P/P	60 - 160
Glufosinate	97.3	102	P/P	60 - 160
Glyphosate	88.7	94.4	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A110702

Included Lab Sample IDs: 2307893

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	98.8	93.7	P/P	60 - 160
Endothall	90.3	99.0	P/P	60 - 160
Sucralose	124	129	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110726

Included Lab Sample IDs: 2307872, 2307875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	98.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110733

Included Lab Sample IDs: 2307872, 2307875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.7	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110751

Included Lab Sample IDs: 2307871, 2307874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.2	95.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110751

Included Lab Sample IDs: 2307871, 2307874

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110756

Included Lab Sample IDs: 2307872, 2307875

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

Reference Method: SM 5310 B-2011

Run ID: A110771

Included Lab Sample IDs: 2307872, 2307875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.3	98.9	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A110787

Included Lab Sample IDs: 2307892

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.0		P	80 - 120
Toxaphene	96.2		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110804

Included Lab Sample IDs: 2307872, 2307875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.8	P/P	90 - 110
Total-P	102	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110810

Included Lab Sample IDs: 2307892

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	106		P	80 - 120
PCB-1260	107		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110957

Included Lab Sample IDs: 2307892

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin	105		P	80 - 120
Methoprene	102		P	80 - 120
Piperonyl Butoxide	96.6		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110972

Included Lab Sample IDs: 2307892

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	97.4		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	97.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110972
Included Lab Sample IDs: 2307892

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-Cyfluthrin	105		P	80 - 120
Bifenthrin	101		P	80 - 120
Carbophenothion	104		P	80 - 120
Chlorothalonil	94.9		P	80 - 120
Cis-Nonachlor	96.6		P	80 - 120
Cypermethrin	102		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	105		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	98.5		P	80 - 120
Deltamethrin	93.4		P	80 - 120
Dichlobenil	98.3		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	98.7		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	93.8		P	80 - 120
Endrin Aldehyde	99.6		P	80 - 120
Endrin Ketone	91.1		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfuralin	99.5		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	99.8		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	99.6		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	99.7		P	80 - 120
Kepone	76.8*		F	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoxychlor	99.4		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	99.0		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	105		P	80 - 120
Prallethrin	98.3		P	80 - 120
Tau-Fluvalinate	104		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	105		P	80 - 120
Triclosan Methyl	105		P	80 - 120
Trifluralin	98.5		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)	104				1.81	
	Color (true)	103					
EPA 180.1 Rev. 2.0	Turbidity	97.2				3.64	
EPA 300.0 Rev. 2.1	Chloride	100	98.3			0.640	
	Sulfate	100	99.4	99.0		0.689	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	98.2	102			3.18
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.2	101	103			2.15
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.8	100			0.487
EPA 365.1 Rev. 2.0	Total-P	107					0.153
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5	99.4	101			1.79
EPA 8270E	Aldrin	57.9	47.3	44.4			6.38
	Alpha-BHC	96.4	87.0	82.3			5.52
	Alpha-Chlordane	86.8	74.8	69.6			7.13
	Beta-BHC	110	101	96.2			4.64
	Beta-Cyfluthrin	105	104	101			2.64
	Bifenthrin	93.5	81.2	81.4			0.265
	Carbophenothion	48.7	44.7	44.6			0.143
	Chlorothalonil	54.3	154	159			3.02
	Cis-Nonachlor	79.6	65.5	56.8			14.1
	Cypermethrin	114	115	102			12.3
	Dacthal	98.2	83.9	81.9			2.43
	DDD-p,p'	82.2	68.1	65.8			3.49
	DDE-p,p'	82.9	66.3	64.0			3.49
	DDT-p,p'	87.3	73.3	70.4			4.04
	Delta-BHC	117	112	105			6.02
	Deltamethrin	71.3	56.0	62.1			10.4
	Dichlobenil	93.6	74.9	75.3			0.531
	Dicofol	92.7	78.7	72.6			8.11
	Dieldrin	76.9	69.6	61.0			12.1
	Endosulfan I	85.3	70.9	65.9			7.31
	Endosulfan II	88.5	75.2	70.4			6.66
	Endosulfan Sulfate	101	83.0	71.1			15.5
	Endrin	57.8	79.0	68.2			14.7
	Endrin Aldehyde	62.1	22.9	34.0			39.2
	Endrin Ketone	177	126	139			10.2
	Esfenvalerate	106	97.1	94.2			2.95
	Ethalfuralin	81.5	68.2	66.0			3.29
	Fenpropathrin	74.4	75.9	74.7			1.59
	Gamma-BHC	99.9	89.8	87.0			3.14
	Gamma-Chlordane	85.0	73.0	71.3			2.32
	Heptachlor	78.9	68.7	64.2			6.71
	Heptachlor Epoxide	95.9	96.4	76.9			22.6
	Hexachlorobenzene	83.9	72.6	69.5			4.35
	Kepone	155	142	135			4.95
	Lambda-Cyhalothrin	102	104	117			12.1
	Methoprene	23.9	63.7	64.9			1.86
	Methoxychlor	108	100	91.5			9.11
	MGK-264	77.9	65.4	65.5			0.193
	Mirex	68.4	64.3	60.0			6.97
	Oxychlordane	81.7	65.2	68.5			4.99
	PCB-1016	84.6	79.3	64.5			20.6
	PCB-1260	90.5	93.4	79.2			16.4
	Permethrin	105	99.9	94.0			6.05
	Phenothrin	49.8	60.6	53.8			12.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Piperonyl Butoxide	80.4	84.6	69.5			15.5
	Prallethrin	40.2	44.7	46.2			3.21
	Tau-Fluvalinate	94.0	99.7	96.5			3.22
	Tetramethrin	18.2	37.5	42.7			13.1
	Trans-Nonachlor	85.1	68.0	67.0			1.57
	Triclosan Methyl	87.6	69.2	65.5			5.56
	Trifluralin	82.4	71.0	67.4			5.18
EPA 8276	Chlordane	93.2	85.2	64.9			27.0
	Toxaphene	81.2	88.5	64.5			31.3
EPA 8321B	2,4-D	108	129	125			2.47
	2,4,5-T	76.9	97.4	114			15.4
	Acesulfame K	99.8	101	101			0.540
	Acetaminophen	77.4	89.8	77.2			15.1
	Acetamiprid	92.8	97.5	87.0			11.4
	Afidopyropen	69.4	77.6	65.6			16.8
	AMPA	105	119	126			5.45
	Bentazon	38.8					1.31
	Benzovindiflupyr	91.3	107	86.3			21.5
	Carbamazepine	100	108	95.8			12.0
	Clothianidin	102	109	92.0			17.2
	Dinotefuran	106	143	117			20.0
	Diuron	88.0	87.0	77.6			11.4
	Endothall	92.3	93.8	93.7			0.107
	Fenuron	125	125	104			19.0
	Fluridone	108	121	108			11.0
	Glufosinate	111	103	114			10.2
	Glyphosate	98.3	92.6	99.0			6.70
	Hydrocodone	102	108	97.4			10.0
	Ibuprofen	90.5	87.3	73.7			16.9
	Imazapyr	105	119	91.5			13.8
	Imidacloprid	108	222	195			13.1
	Linuron	95.0	97.1	97.4			0.248
	Mandestrobin	99.6	112	100			11.3
	MCPP	122	135	135			0.504
	Naproxen	83.1	82.2	73.1			11.7
	Primidone	77.4	114	84.6			29.4
	Pyraclostrobin	87.4	108	90.9			17.4
	Silvex	77.6	106	116			9.36
	Sucralose	126	114	121			5.34
	Thiamethoxam	102	166	152			9.07
	Tolfenpyrad	46.5	65.7	55.4			17.1
	Triclopyr	79.0	104	100			3.32
SM 2320 B-2011	Total Alkalinity	95.7				1.80	
SM 2540 C-2011	TDS					2.22	
	TDS					3.17	
SM 4500 F-C-2011	Fluoride	98.0	94.9	94.4			0.498
SM 5310 B-2011	Organic Carbon	95.6	96.0	97.0			0.581

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2307871, 2307874
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2307871, 2307874

Reference Method Descriptions

Method	Description	Associated Samples
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2307871, 2307874
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2307871, 2307874
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2307872, 2307875
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2307872, 2307875
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2307872, 2307875
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2307872, 2307875
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2307873, 2307876
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2307892
EPA 8270E	PCBs in water matrices by GC/MS/MS	2307892
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2307892
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2307893
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2307871, 2307874
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2307871, 2307874
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2307871, 2307874
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2307871, 2307874
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2307872, 2307875

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	02/24/2022			02/24/2022 16:41	Anna M. Plaviak	2307874
	02/24/2022			02/24/2022 17:03	Anna M. Plaviak	2307871
EPA 180.1 Rev. 2.0	02/24/2022			02/24/2022 18:07	Khloe J Berg	2307871
	02/24/2022			02/24/2022 18:08	Khloe J Berg	2307874
EPA 300.0 Rev. 2.1	02/24/2022			02/28/2022 20:41	James L Waggeberby	2307871
	02/24/2022			02/28/2022 20:53	James L Waggeberby	2307874
EPA 350.1 Rev. 2.0	02/24/2022			03/03/2022 12:19	Ping Hua	2307872
	02/24/2022			03/03/2022 12:34	Ping Hua	2307875
EPA 351.2 Rev. 2.0	02/24/2022	02/28/2022 11:50	Alexandra J Mattheus	03/02/2022 15:59	Alexandra J Mattheus	2307872
	02/24/2022	02/28/2022 11:50	Alexandra J Mattheus	03/02/2022 16:01	Alexandra J Mattheus	2307875
EPA 353.2 Rev. 2.0	02/24/2022			03/03/2022 17:46	Nathaniel J Jones	2307872
	02/24/2022			03/03/2022 17:47	Nathaniel J Jones	2307875
EPA 365.1 Rev. 2.0	02/24/2022	03/04/2022 14:00	Simonne.V. Calhoun	03/07/2022 18:07	Sarah A Nixon	2307875
	02/24/2022	03/04/2022 14:00	Simonne.V. Calhoun	03/07/2022 18:16	Sarah A Nixon	2307872
EPA 365.1 Rev. 2.0 dissolved	02/24/2022			02/24/2022 16:05	James L Waggeberby	2307873
	02/24/2022			02/24/2022 16:08	James L Waggeberby	2307876
EPA 8270E	02/24/2022	03/02/2022 08:30	Rasheda Ghaffari	03/07/2022 20:22	Julie Wi	2307892
	02/24/2022	03/02/2022 08:30	Rasheda Ghaffari	03/08/2022 20:06	Julie Wi	2307892
	02/24/2022	03/10/2022 08:00	Julie Wi	03/15/2022 21:29	Julie Wi	2307892
EPA 8276	02/24/2022	03/02/2022 08:30	Rasheda Ghaffari	03/05/2022 02:27	Arthur Maknenko	2307892
EPA 8321B	02/24/2022	02/24/2022 15:00	June Rhew	02/26/2022 16:32	Juyoung Kim	2307893
	02/24/2022	03/01/2022 10:35	Umesh Chiluwal	03/01/2022 11:40	Umesh Chiluwal	2307893
	02/24/2022	03/01/2022 10:35	Umesh Chiluwal	03/01/2022 14:22	Umesh Chiluwal	2307893
SM 2320 B-2011	02/24/2022			03/03/2022 00:25	Dale L. Simmons	2307871
	02/24/2022			03/03/2022 00:33	Dale L. Simmons	2307874
SM 2540 C-2011	02/24/2022			02/28/2022 15:12	Yijie Li	2307871, 2307874
SM 2540 D-2011	02/24/2022			02/28/2022 15:12	Yijie Li	2307871, 2307874
SM 4500 F-C-2011	02/24/2022			03/03/2022 00:25	Dale L. Simmons	2307871
	02/24/2022			03/03/2022 00:33	Dale L. Simmons	2307874
SM 5310 B-2011	02/24/2022			03/05/2022 02:56	Touraj Touran	2307872
	02/24/2022			03/05/2022 03:15	Touraj Touran	2307875