

Chemical Analysis Report

SO-DIST-2023-08-10-01

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

Event Description: **2022 SMP : Myakka**
Request ID: **RQ-2023-08-07-58**
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
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Certified by: Colin Wright, Program Administrator

Date Certified: 06-SEP-2023 10:11



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: BRANDYBRANCHATNWLILYCORD

Collection Date/Time: 08/09/2023 09:00

Field ID: G3SD0201

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430431	EPA 8270E	Aldrin	0.66	U	ng/L	P433679	
		Alpha-BHC	0.10	U	ng/L	P433679	
		Alpha-Chlordane	0.20	U	ng/L	P433679	
		PCB-1016	2.0	U	ng/L	P433679	
		Beta-BHC	0.10	U	ng/L	P433679	
		PCB-1221	2.0	U	ng/L	P433679	
		Beta-Cyfluthrin	1.3	U	ng/L	P433679	
		PCB-1232	2.0	U	ng/L	P433679	
		Bifenthrin	0.51	U	ng/L	P433679	
		PCB-1242	2.0	U	ng/L	P433679	
		Carbophenothion	0.92	U	ng/L	P433679	
		PCB-1248	2.0	U	ng/L	P433679	
		Chlorothalonil	3.7	U	ng/L	P433679	
		PCB-1254	2.0	U	ng/L	P433679	
		Cis-Nonachlor	0.20	U	ng/L	P433679	
		PCB-1260	2.0	U	ng/L	P433679	
		Cypermethrin	1.5	U	ng/L	P433679	
		Dacthal	0.15	U	ng/L	P433679	
		DDD-p,p'	0.25	U	ng/L	P433679	
		DDE-p,p'	0.20	U	ng/L	P433679	
		DDT-p,p'	0.81	U	ng/L	P433679	
		Delta-BHC	0.41	U	ng/L	P433679	
		Deltamethrin	1.3	U	ng/L	P433679	
		Dichlobenil	0.25	U	ng/L	P433679	
		Dicofol	1.3	U	ng/L	P433679	
		Dieldrin	0.41	U	ng/L	P433679	
		Endosulfan I	0.41	U	ng/L	P433679	
		Endosulfan II	0.92	U	ng/L	P433679	
		Endosulfan Sulfate	0.31	U	ng/L	P433679	
		Endrin	0.92	U	ng/L	P433679	
		Endrin Aldehyde	0.76	U	ng/L	P433679	
		Endrin Ketone	0.41	U	ng/L	P433679	
		Esfenvalerate	0.76	U	ng/L	P433679	
		Ethalfuralin	0.15	U	ng/L	P433679	
		Fenpropathrin	0.25	U	ng/L	P433679	
		Gamma-BHC	0.13	U	ng/L	P433679	
		Gamma-Chlordane	0.20	I	ng/L	P433679	
		Heptachlor	0.20	U	ng/L	P433679	
		Heptachlor Epoxide	0.25	U	ng/L	P433679	
		Hexachlorobenzene**	1.0	U	ng/L	P433679	
		Kepone	14	UJ	ng/L	P433679	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P433679	
		Methoprene	0.76	U	ng/L	P433679	
		Methoxychlor	0.31	U	ng/L	P433679	

Field ID: G3SD0201

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430431	EPA 8270E	MGK-264	0.20	U	ng/L	P433679	
		Mirex	0.36	U	ng/L	P433679	
		Oxychlordane	0.31	U	ng/L	P433679	
		Permethrin	1.6	U	ng/L	P433679	
		Phenothrin	0.92	U	ng/L	P433679	
		Piperonyl Butoxide	0.15	U	ng/L	P433679	
		Prallethrin	2.0	U	ng/L	P433679	
		Tau-Fluvalinate	0.25	U	ng/L	P433679	
		Tetramethrin	0.76	U	ng/L	P433679	
		Trans-Nonachlor	0.20	U	ng/L	P433679	
		Triclosan Methyl	0.15	U	ng/L	P433679	
		Trifluralin	0.20	U	ng/L	P433679	
		Chlordane	2.0	U	ng/L	P433679	
		Toxaphene	15	U	ng/L	P433679	
2430433	EPA 8321B	2,4-D	0.0037	I	ug/L	P433687	
		Acesulfame K	0.10	U	ug/L	P433724	
		2,4,5-T	0.0040	U	ug/L	P433687	
		AMPA	0.10	U	ug/L	P433724	
		Acetaminophen	0.0080	U	ug/L	P433687	
		Endothall	0.25	U	ug/L	P433724	
		Acetamiprid	0.0020	U	ug/L	P433687	MS
		Glufosinate	0.10	U	ug/L	P433724	
		Glyphosate	0.10	U	ug/L	P433724	
		Afidopyropen	0.0020	U	ug/L	P433687	
		Bentazon	8.0E-04	U	ug/L	P433687	
		Sucralose	0.011	I	ug/L	P433724	
		Benzovindiflupyr	0.0020	U	ug/L	P433687	
		Carbamazepine	8.0E-04	U	ug/L	P433687	MS
		Clothianidin	0.0020	U	ug/L	P433687	
		Dinotefuran	0.0022	I	ug/L	P433687	
		Diuron	0.0020	U	ug/L	P433687	MS
		Fenuron	0.032	U	ug/L	P433687	MS
		Fluridone	8.0E-04	U	ug/L	P433687	
		Imazapyr	0.0040	U	ug/L	P433687	
		Hydrocodone	0.0020	U	ug/L	P433687	
		Ibuprofen	0.080	U	ug/L	P433687	
		Imidacloprid	0.0020	U	ug/L	P433687	
		Linuron	0.0040	U	ug/L	P433687	
		Mandestrobin	0.0020	U	ug/L	P433687	
		MCP	0.0020	U	ug/L	P433687	
		Naproxen	0.0080	U	ug/L	P433687	
		Primidone	0.0040	U	ug/L	P433687	
		Pyraclostrobin	0.0020	U	ug/L	P433687	
		Silvex	0.0040	U	ug/L	P433687	
		Thiamethoxam	0.0020	U	ug/L	P433687	

Field ID: G3SD0201

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430433	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P433687	
		Triclopyr	0.0040	U	ug/L	P433687	

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

Sample Location: Lake Myakka (UPPER) at Middle

Collection Date/Time: 08/09/2023 10:30

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430425	DEP SOP: NU-094-1	Color (true)	91	A	PCU	P433712	
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P433717	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P434532	
		Sulfate	160		mg SO4/L	P434535	
	SM 2320 B-2011	Total Alkalinity	21		mg CaCO3/L	P434012	
	SM 2540 C-2015	TDS	544		mg/L	P434221	
	SM 2540 D-2015	TSS	4	I	mg/L	P434222	
2430426	SM 4500-F- C-2011	Fluoride	0.28		mg F/L	P434016	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P434128	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P433817	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P434421	
	EPA 365.1 Rev. 2.0	Total-P	0.43		mg P/L	P433844	
2430432	SM 5310 B-2011	Organic Carbon	18		mg C/L	P433847	
	EPA 8270E	Aldrin	0.67	U	ng/L	P433679	
		Alpha-BHC	0.10	U	ng/L	P433679	
		Alpha-Chlordane	0.20	U	ng/L	P433679	
		PCB-1016	2.0	U	ng/L	P433679	
		Beta-BHC	0.10	U	ng/L	P433679	
		PCB-1221	2.0	U	ng/L	P433679	
		Beta-Cyfluthrin	1.3	U	ng/L	P433679	
		PCB-1232	2.0	U	ng/L	P433679	
		Bifenthrin	0.51	U	ng/L	P433679	
		PCB-1242	2.0	U	ng/L	P433679	
		Carbophenothion	0.92	U	ng/L	P433679	
		PCB-1248	2.0	U	ng/L	P433679	
		Chlorothalonil	3.7	U	ng/L	P433679	
		PCB-1254	2.0	U	ng/L	P433679	
		Cis-Nonachlor	0.20	U	ng/L	P433679	
		PCB-1260	2.0	U	ng/L	P433679	
		Cypermethrin	1.5	U	ng/L	P433679	
		Dacthal	0.15	U	ng/L	P433679	
		DDD-p,p'	0.26	U	ng/L	P433679	
		DDE-p,p'	0.20	U	ng/L	P433679	
		DDT-p,p'	0.89	I	ng/L	P433679	
		Delta-BHC	0.41	U	ng/L	P433679	
		Deltamethrin	1.3	U	ng/L	P433679	
		Dichlobenil	0.26	U	ng/L	P433679	
		Dicofol	1.3	U	ng/L	P433679	
		Dieldrin	0.41	U	ng/L	P433679	
		Endosulfan I	0.41	U	ng/L	P433679	
		Endosulfan II	0.92	U	ng/L	P433679	
		Endosulfan Sulfate	0.31	U	ng/L	P433679	
		Endrin	0.92	U	ng/L	P433679	
		Endrin Aldehyde	0.77	U	ng/L	P433679	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430432	EPA 8270E	Endrin Ketone	0.41	U	ng/L	P433679	
		Esfenvalerate	0.77	U	ng/L	P433679	
		Ethalfuralin	0.15	U	ng/L	P433679	
		Fenpropathrin	0.26	U	ng/L	P433679	
		Gamma-BHC	0.13	U	ng/L	P433679	
		Gamma-Chlordane	0.20	U	ng/L	P433679	
		Heptachlor	0.20	U	ng/L	P433679	
		Heptachlor Epoxide	0.26	U	ng/L	P433679	
		Hexachlorobenzene**	1.0	U	ng/L	P433679	
		Kepone	14	UJ	ng/L	P433679	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P433679	
		Methoprene	0.77	U	ng/L	P433679	
		Methoxychlor	0.31	U	ng/L	P433679	
		MGK-264	0.20	U	ng/L	P433679	
		Mirex	0.36	U	ng/L	P433679	
		Oxychlordane	0.31	U	ng/L	P433679	
		Permethrin	1.6	U	ng/L	P433679	
		Phenothrin	0.92	U	ng/L	P433679	
		Piperonyl Butoxide	0.15	U	ng/L	P433679	
		Prallethrin	2.0	U	ng/L	P433679	
		Tau-Fluvalinate	0.26	U	ng/L	P433679	
		Tetramethrin	0.77	U	ng/L	P433679	
		Trans-Nonachlor	0.20	U	ng/L	P433679	
		Triclosan Methyl	0.15	U	ng/L	P433679	
		Trifluralin	0.20	U	ng/L	P433679	
	EPA 8276	Chlordane	2.0	U	ng/L	P433679	
		Toxaphene	15	U	ng/L	P433679	

Ref. Method and Comment:

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

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

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

Sample Location: Lake Myakka (LOWER) at Middle

Collection Date/Time: 08/09/2023 12:50

Field ID: G3SD0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430423	DEP SOP: NU-094-1	Color (true)	58		PCU	P433712	
	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P433717	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P434532	
		Sulfate	230		mg SO4/L	P434535	
	SM 2320 B-2011	Total Alkalinity	1.9	I	mg CaCO3/L	P434012	
	SM 2540 C-2015	TDS	537		mg/L	P434221	
	SM 2540 D-2015	TSS	7	I	mg/L	P434222	
	SM 4500-F- C-2011	Fluoride	0.28		mg F/L	P434016	
2430424	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P434128	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P433817	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P434421	
	EPA 365.1 Rev. 2.0	Total-P	0.45		mg P/L	P433844	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P433847	

Ref. Method and Comment:

SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 749 umhos/cm.

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

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P433712

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433717

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434532

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434535

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434128

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433817

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434421

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433844

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

Reference Method: EPA 8270E
Batch ID: P433679

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P433679

Component	Result	Code	Units
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	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'	0.80	U	ng/L
DDT-p,p'	0.80	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	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P433679

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P433679

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

Reference Method: EPA 8276
Batch ID: P433679

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: P433687

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	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: P433724

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P433724

Component	Result	Code	Units
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: P434012

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

Reference Method: SM 2540 C-2015
Batch ID: P434221

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P434222

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P434016

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P433847

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: P433712

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433717

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434532

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434535

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434128

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433817

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434421

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433844

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

Reference Method: EPA 8270E
Batch ID: P433679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	65.6		P	30 - 96.0
Alpha-BHC	102		P	70 - 109
Alpha-Chlordane	63.8		P	45 - 107
Beta-BHC	83.8		P	64 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P433679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	95.7		P	17 - 141
Bifenthrin	68.7		P	10 - 113
Carbophenothion	60.0		P	24 - 91.0
Chlorothalonil	61.4		P	26 - 180
Cis-Nonachlor	57.7		P	37 - 102
Cypermethrin	111		P	20 - 133
Dacthal	87.7		P	69 - 114
DDD-p,p'	64.2		P	42 - 105
DDE-p,p'	68.6		P	42 - 106
DDT-p,p'	61.9		P	42 - 107
Delta-BHC	85.6		P	67 - 144
Deltamethrin	106		P	15 - 149
Dichlobenil	60.7		P	46 - 117
Dicofol	68.6		P	34 - 114
Dieldrin	65.4		P	50 - 108
Endosulfan I	76.8		P	55 - 104
Endosulfan II	69.4		P	51 - 111
Endosulfan Sulfate	70.2		P	56 - 121
Endrin	71.8		P	10 - 106
Endrin Aldehyde	62.0		P	34 - 114
Endrin Ketone	85.0		P	63 - 177
Esfenvalerate	107		P	29 - 143
Ethalfuralin	88.4		P	46 - 96.0
Fenpropathrin	75.8		P	28 - 115
Gamma-BHC	73.3		P	65 - 121
Gamma-Chlordane	71.1		P	39 - 103
Heptachlor	61.8		P	39 - 94.0
Heptachlor Epoxide	79.4		P	54 - 104
Hexachlorobenzene	55.1		P	36 - 100
Kepone	81.6		P	10 - 225
Lambda-Cyhalothrin	82.1		P	10 - 135
Methoprene	75.9		P	10 - 109
Methoxychlor	111		P	52 - 112
MGK-264	76.6		P	44 - 117
Mirex	67.0		P	20 - 90.0
Oxychlordane	82.9		P	44 - 102
PCB-1016	64.4		P	45 - 107
PCB-1260	81.5		P	40 - 118
Permethrin	83.4		P	18 - 135
Phenothrin	73.7		P	10 - 102
Piperonyl Butoxide	149		P	28 - 156
Prallethrin	80.8		P	28 - 113
Tau-Fluvalinate	111		P	10 - 123
Tetramethrin	106		P	18 - 158
Trans-Nonachlor	89.9		P	39 - 104
Triclosan Methyl	98.1		P	54 - 108
Trifluralin	86.5		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P433679

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

Reference Method: EPA 8276

Batch ID: P433679

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.8		P	52 - 117
Toxaphene	96.0		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P433687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.5		P	40 - 150
2,4,5-T	70.0		P	40 - 150
Acetaminophen	73.7		P	30 - 150
Acetamiprid	76.5		P	40 - 150
Afidopyropen	46.7		P	30 - 150
Bentazon	146		P	30 - 150
Benzovindiflupyr	63.5		P	40 - 150
Carbamazepine	53.7		P	40 - 150
Clothianidin	96.0		P	40 - 150
Dinotefuran	140		P	40 - 150
Diuron	54.7		P	40 - 150
Fenuron	103		P	40 - 150
Fluridone	107		P	40 - 150
Hydrocodone	92.2		P	40 - 150
Ibuprofen	60.5		P	40 - 150
Imazapyr	96.2		P	40 - 150
Imidacloprid	78.3		P	40 - 150
Linuron	92.0		P	40 - 150
Mandestrobin	83.7		P	40 - 150
MCPP	84.7		P	40 - 150
Naproxen	54.8		P	40 - 150
Primidone	97.6		P	40 - 150
Pyraclostrobin	64.4		P	40 - 150
Silvex	81.1		P	40 - 150
Thiamethoxam	90.8		P	40 - 150
Tolfenpyrad	50.5		P	30 - 150
Triclopyr	70.2		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P433724

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	110		P	40 - 150
AMPA	81.8		P	40 - 150
Endothall	97.7		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	120		P	40 - 150
Sucralose	92.4		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P434012

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.2		P	92 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P434221

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

Reference Method: SM 2540 D-2015
Batch ID: P434222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.3		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P434016

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P433847

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433503	Chloride	103		P	90 - 110
2433612	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433503	Sulfate	101		P	90 - 110
2433612	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434128

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430379	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433817

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430377	Kjeldahl Nitrogen	102	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430365	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430465	Total-P	102	106	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P433679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2429555	Aldrin	32.3	37.6	P/P	24 - 81.0
2429555	Alpha-BHC	81.1	89.6	P/P	65 - 110
2429555	Alpha-Chlordane	45.1	44.7	P/P	43 - 119
2429555	Beta-BHC	78.2	85.6	P/P	54 - 165
2429555	Beta-Cyfluthrin	60.9	61.7	P/P	27 - 165
2429555	Bifenthrin	49.0	50.4	P/P	17 - 117
2429555	Carbophenothion	21.6	24.0	P/P	21 - 108
2429555	Chlorothalonil	72.1	83.2	P/P	10 - 255
2429555	Cis-Nonachlor	41.5	41.6	P/P	34 - 98.0
2429555	Cypermethrin	72.9	72.9	P/P	25 - 143
2429555	Dacthal	61.9	71.2	P/P	55 - 139
2429555	DDD-p,p'	51.3	50.0	P/P	30 - 109
2429555	DDE-p,p'	51.2	53.5	P/P	35 - 106
2429555	DDT-p,p'	44.9	45.3	P/P	41 - 101

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P433679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2429555	Delta-BHC	91.5	99.5	P/P	58 - 165
2429555	Deltamethrin	77.8	69.3	P/P	10 - 194
2429555	Dichlobenil	49.9	54.0	P/P	22 - 114
2429555	Dicofol	45.4	44.9	P/P	17 - 133
2429555	Dieldrin	45.3	49.2	P/P	45 - 129
2429555	Endosulfan I	52.7	52.3	P/P	49 - 104
2429555	Endosulfan II	59.5	61.0	P/P	37 - 117
2429555	Endosulfan Sulfate	54.6	52.4	P/P	38 - 128
2429555	Endrin	49.5	53.2	P/P	35 - 116
2429555	Endrin Aldehyde	58.3	44.1	P/P	19 - 108
2429555	Endrin Ketone	85.3	73.9	P/P	44 - 134
2429555	Esfenvalerate	73.5	85.9	P/P	27 - 176
2429555	Ethalfuralin	54.7	59.6	P/P	49 - 100
2429555	Fenpropathrin	45.7	48.0	P/P	34 - 117
2429555	Gamma-BHC	70.1	79.0	P/P	59 - 129
2429555	Gamma-Chlordane	46.6	48.0	P/P	33 - 107
2429555	Heptachlor	38.4	41.9	P/P	37 - 94.0
2429555	Heptachlor Epoxide	52.5	53.4	P/P	38 - 118
2429555	Hexachlorobenzene	37.7	40.7	P/P	35 - 97.0
2429555	Kepone	68.4	66.6	P/P	10 - 221
2429555	Lambda-Cyhalothrin	56.2	62.3	P/P	23 - 190
2429555	Methoprene	50.2	51.2	P/P	21 - 109
2429555	Methoxychlor	77.2	69.8	P/P	46 - 118
2429555	MGK-264	71.3	68.8	P/P	39 - 122
2429555	Mirex	41.8	44.6	P/P	25 - 90.0
2429555	Oxychlordane	51.4	52.3	P/P	42 - 100
2429555	Permethrin	60.6	84.9	P/P	33 - 181
2429555	Phenothrin	55.1	58.4	P/P	12 - 125
2429555	Piperonyl Butoxide	147	141	P/P	10 - 178
2429555	Prallethrin	58.7	69.9	P/P	24 - 122
2429555	Tau-Fluvalinate	73.7	97.8	P/P	13 - 151
2429555	Tetramethrin	80.1	97.7	P/P	16 - 172
2429555	Trans-Nonachlor	53.8	57.4	P/P	39 - 100
2429555	Triclosan Methyl	61.7	55.4	P/P	43 - 110
2429555	Trifluralin	48.1	48.6	P/P	45 - 94.0
2430112	PCB-1016	53.6	57.8	P/P	45 - 107
2430112	PCB-1260	66.5	66.3	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P433679

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430112	Chlordane	78.1	75.0	P/P	43 - 123
2430112	Toxaphene	92.4	93.6	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P433687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430006	2,4-D	88.5	97.5	P/P	40 - 150
2430006	2,4,5-T	113	109	P/P	40 - 150
2430006	Acetaminophen	62.7	64.4	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P433687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430006	Acetamiprid	29.0	38.9	F/F	40 - 150
2430006	Afidopyropen	50.0	65.0	P/P	30 - 150
2430006	Benzovindiflupyr	61.7	51.1	P/P	40 - 150
2430006	Carbamazepine	34.1	37.4	F/F	40 - 150
2430006	Clothianidin	61.0	57.3	P/P	40 - 150
2430006	Dinotefuran	48.1	53.3	P/P	40 - 150
2430006	Diuron	34.3	32.4	F/F	40 - 150
2430006	Fenuron	41.0	38.6	P/F	40 - 150
2430006	Hydrocodone	44.5	44.4	P/P	40 - 150
2430006	Ibuprofen	59.5	73.8	P/P	40 - 150
2430006	Imazapyr	104	97.6	P/P	40 - 150
2430006	Imidacloprid	80.1	86.8	P/P	40 - 150
2430006	Linuron	59.5	57.4	P/P	40 - 150
2430006	Mandestrobin	92.2	80.6	P/P	40 - 150
2430006	MCP	115	105	P/P	40 - 150
2430006	Naproxen	73.0	55.3	P/P	40 - 150
2430006	Primidone	64.1	64.0	P/P	40 - 150
2430006	Pyraclostrobin	62.1	65.7	P/P	40 - 150
2430006	Silvex	105	107	P/P	40 - 150
2430006	Thiamethoxam	58.3	55.8	P/P	40 - 150
2430006	Tolfenpyrad	64.8	54.8	P/P	30 - 150
2430006	Triclopyr	101	98.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P433724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430105	Acesulfame K	117	119	P/P	40 - 150
2430105	AMPA	95.8	106	P/P	40 - 150
2430105	Endothall	110	97.5	P/P	40 - 150
2430105	Glufosinate	96.1	95.3	P/P	40 - 150
2430105	Glyphosate	99.0	99.5	P/P	40 - 150
2430105	Sucralose	89.0	90.6	P/P	40 - 150

Reference Method: SM 5310 B-2011
Batch ID: P433847

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430625	Organic Carbon	93.8	96.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P433712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430425	Color (true)	0.906	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433717

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430290	Turbidity	0.866	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433503	Chloride	0.243	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433503	Sulfate	0.572	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430379	Ammonia-N	0.158	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433817

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430377	Kjeldahl Nitrogen	2.12	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430365	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430465	Total-P	3.23	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P433679

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2429555	Aldrin	14.9	Spike	P	0 - 41
2429555	Alpha-BHC	9.96	Spike	P	0 - 25
2429555	Alpha-Chlordane	0.887	Spike	P	0 - 32
2429555	Beta-BHC	9.08	Spike	P	0 - 33
2429555	Beta-Cyfluthrin	1.38	Spike	P	0 - 43
2429555	Bifenthrin	2.80	Spike	P	0 - 52
2429555	Carbophenothion	10.8	Spike	P	0 - 49
2429555	Chlorothalonil	14.3	Spike	P	0 - 82
2429555	Cis-Nonachlor	0.0414	Spike	P	0 - 33
2429555	Cypermethrin	0.00964	Spike	P	0 - 51
2429555	Dacthal	14.0	Spike	P	0 - 27
2429555	DDD-p,p'	2.50	Spike	P	0 - 39
2429555	DDE-p,p'	4.47	Spike	P	0 - 31
2429555	DDT-p,p'	0.914	Spike	P	0 - 29
2429555	Delta-BHC	8.38	Spike	P	0 - 35
2429555	Deltamethrin	11.6	Spike	P	0 - 100
2429555	Dichlobenil	7.91	Spike	P	0 - 40
2429555	Dicofol	1.21	Spike	P	0 - 37
2429555	Dieldrin	8.21	Spike	P	0 - 27
2429555	Endosulfan I	0.808	Spike	P	0 - 23
2429555	Endosulfan II	2.46	Spike	P	0 - 34
2429555	Endosulfan Sulfate	4.13	Spike	P	0 - 36
2429555	Endrin	7.22	Spike	P	0 - 45
2429555	Endrin Aldehyde	27.7	Spike	P	0 - 76
2429555	Endrin Ketone	14.3	Spike	P	0 - 43
2429555	Esfenvalerate	15.5	Spike	P	0 - 51
2429555	Ethalfuralin	8.64	Spike	P	0 - 22
2429555	Fenpropathrin	4.92	Spike	P	0 - 49
2429555	Gamma-BHC	12.0	Spike	P	0 - 28
2429555	Gamma-Chlordane	2.84	Spike	P	0 - 40
2429555	Heptachlor	8.72	Spike	P	0 - 29
2429555	Heptachlor Epoxide	1.75	Spike	P	0 - 33
2429555	Hexachlorobenzene	7.67	Spike	P	0 - 36
2429555	Kepone	2.73	Spike	P	0 - 85
2429555	Lambda-Cyhalothrin	10.4	Spike	P	0 - 55
2429555	Methoprene	2.04	Spike	P	0 - 53
2429555	Methoxychlor	9.98	Spike	P	0 - 50
2429555	MGK-264	3.50	Spike	P	0 - 43
2429555	Mirex	6.39	Spike	P	0 - 40
2429555	Oxychlordane	1.72	Spike	P	0 - 31
2429555	Permethrin	33.4	Spike	P	0 - 50
2429555	Phenothrin	5.77	Spike	P	0 - 58
2429555	Piperonyl Butoxide	3.67	Spike	P	0 - 100
2429555	Prallethrin	17.3	Spike	P	0 - 39
2429555	Tau-Fluvalinate	28.0	Spike	P	0 - 54
2429555	Tetramethrin	16.7	Spike	P	0 - 51
2429555	Trans-Nonachlor	6.54	Spike	P	0 - 39
2429555	Triclosan Methyl	10.7	Spike	P	0 - 31
2429555	Trifluralin	1.08	Spike	P	0 - 22
2430112	PCB-1016	7.57	Spike	P	0 - 25
2430112	PCB-1260	0.232	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P433679

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430112	Chlordane	4.00	Spike	P	0 - 28
2430112	Toxaphene	1.36	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P433687

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430006	2,4-D	8.76	Spike	P	0 - 30
2430006	2,4,5-T	3.58	Spike	P	0 - 30
2430006	Acetaminophen	2.78	Spike	P	0 - 30
2430006	Acetamiprid	29.1	Spike	P	0 - 30
2430006	Afidopyropen	26.1	Spike	P	0 - 30
2430006	Bentazon	4.45	Spike	P	0 - 30
2430006	Benzovindiflupyr	18.9	Spike	P	0 - 30
2430006	Carbamazepine	7.87	Spike	P	0 - 30
2430006	Clothianidin	6.20	Spike	P	0 - 30
2430006	Dinotefuran	10.4	Spike	P	0 - 30
2430006	Diuron	5.87	Spike	P	0 - 30
2430006	Fenuron	6.09	Spike	P	0 - 30
2430006	Fluridone	27.2	Spike	P	0 - 30
2430006	Hydrocodone	0.235	Spike	P	0 - 30
2430006	Ibuprofen	21.5	Spike	P	0 - 30
2430006	Imazapyr	4.61	Spike	P	0 - 30
2430006	Imidacloprid	7.98	Spike	P	0 - 30
2430006	Linuron	3.64	Spike	P	0 - 30
2430006	Mandestrobin	13.4	Spike	P	0 - 30
2430006	MCP	8.32	Spike	P	0 - 30
2430006	Naproxen	27.6	Spike	P	0 - 30
2430006	Primidone	0.0428	Spike	P	0 - 30
2430006	Pyraclostrobin	5.58	Spike	P	0 - 30
2430006	Silvex	2.28	Spike	P	0 - 30
2430006	Thiamethoxam	4.32	Spike	P	0 - 30
2430006	Tolfenpyrad	16.7	Spike	P	0 - 30
2430006	Triclopyr	2.75	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P433724

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430105	Acesulfame K	1.82	Spike	P	0 - 30
2430105	AMPA	10.2	Spike	P	0 - 30
2430105	Endothall	11.8	Spike	P	0 - 30
2430105	Glufosinate	0.823	Spike	P	0 - 30
2430105	Glyphosate	0.463	Spike	P	0 - 30
2430105	Sucralose	1.65	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P434012

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431028	Total Alkalinity	1.87	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P434221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430405	TDS	7.73	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P434016

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431028	Fluoride	0.511	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P433847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430625	Organic Carbon	1.72	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2430431
Field Sample ID: G3SD0201

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	98.8	P	37 - 129
EPA 8270E	Decachlorobiphenyl	72.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	54.9	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	58.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	66.4	P	28 - 102
EPA 8276	PCNB	111	P	49 - 115

Lab Sample ID: 2430432
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	82.9	P	37 - 129
EPA 8270E	Decachlorobiphenyl	58.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	49.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	78.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	53.5	P	28 - 102
EPA 8276	PCNB	109	P	49 - 115

Lab Sample ID: 2430433
Field Sample ID: G3SD0201

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	101	P	30 - 160
EPA 8321B	Acetaminophen-d4	39.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	45.8	P	30 - 160
EPA 8321B	Diuron-d6	41.0	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	68.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.4	P	30 - 160
EPA 8321B	Primidone-d5	34.0	P	30 - 160
EPA 8321B	Sucralose-d6	108	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A120968

Included Lab Sample IDs: 2430423, 2430425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120971

Included Lab Sample IDs: 2430423, 2430425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.0	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A121009

Included Lab Sample IDs: 2430433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	71.9	79.0	P/P	60 - 160
Endothall	112	86.3	P/P	60 - 160
Glufosinate	84.5	87.3	P/P	60 - 160
Glyphosate	97.5	101	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121022

Included Lab Sample IDs: 2430433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	133	119	P/P	60 - 160
Sucralose	97.8	105	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121032

Included Lab Sample IDs: 2430424, 2430426

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

Reference Method: SM 5310 B-2011

Run ID: A121033

Included Lab Sample IDs: 2430424, 2430426

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

Reference Method: EPA 8270E

Run ID: A121041

Included Lab Sample IDs: 2430431, 2430432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.0		P	80 - 120
PCB-1260	112		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121052

Included Lab Sample IDs: 2430424, 2430426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.6	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121056

Included Lab Sample IDs: 2430433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	87.8	106	P/P	50 - 150
2,4,5-T	96.7	91.0	P/P	50 - 150
Acetaminophen	99.4	93.5	P/P	60 - 160
Acetamiprid	112	111	P/P	50 - 150
Afidopyropen	106	110	P/P	50 - 150
Bentazon	114	101	P/P	50 - 160
Benzovindiflupyr	115	99.2	P/P	50 - 150
Carbamazepine	125	109	P/P	60 - 150
Clothianidin	97.0	97.4	P/P	60 - 150
Dinotefuran	96.8	71.0	P/P	50 - 150
Diuron	101	115	P/P	60 - 160
Fenuron	129	124	P/P	60 - 150
Fluridone	87.1	88.8	P/P	60 - 160
Hydrocodone	110	139	P/P	60 - 150
Ibuprofen	103	84.9	P/P	50 - 160
Imazapyr	94.2	106	P/P	50 - 150
Imidacloprid	85.9	114	P/P	60 - 150
Linuron	64.6	87.7	P/P	60 - 150
Mandestrobin	91.5	89.6	P/P	50 - 150
MCPP	97.8	95.0	P/P	50 - 150
Naproxen	79.0	141	P/P	50 - 160
Primidone	96.5	116	P/P	60 - 150
Pyraclostrobin	102	115	P/P	60 - 150
Silvex	96.8	98.4	P/P	50 - 150
Thiamethoxam	88.5	122	P/P	50 - 150
Tolfenpyrad	96.7	101	P/P	60 - 150
Triclopyr	99.8	84.5	P/P	50 - 150

Reference Method: EPA 8276

Run ID: A121077

Included Lab Sample IDs: 2430431, 2430432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.9		P	80 - 120
Toxaphene	95.4		P	80 - 120

Reference Method: EPA 8270E

Run ID: A121088

Included Lab Sample IDs: 2430431, 2430432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	111		P	80 - 120
Alpha-Chlordane	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A121088

Included Lab Sample IDs: 2430431, 2430432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	96.0		P	80 - 120
Bifenthrin	99.4		P	80 - 120
Carbophenothion	92.4		P	80 - 120
Chlorothalonil	94.6		P	80 - 120
Cis-Nonachlor	89.1		P	80 - 120
Cypermethrin	95.9		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	107		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	104		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	102		P	80 - 120
Dichlobenil	103		P	80 - 120
Dicofol	91.5		P	80 - 120
Dieldrin	96.5		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	99.7		P	80 - 120
Endosulfan Sulfate	86.6		P	80 - 120
Endrin	97.9		P	80 - 120
Endrin Aldehyde	87.9		P	80 - 120
Endrin Ketone	107		P	80 - 120
Esfenvalerate	106		P	80 - 120
Ethalfuralin	83.0		P	80 - 120
Fenpropathrin	97.8		P	80 - 120
Gamma-BHC	109		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	98.2		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	105		P	80 - 120
Kepone	56.8*		F	80 - 120
Lambda-Cyhalothrin	105		P	80 - 120
Methoprene	116		P	80 - 120
Methoxychlor	98.7		P	80 - 120
MGK-264	97.7		P	80 - 120
Mirex	111		P	80 - 120
Oxychlordane	109		P	80 - 120
Permethrin	97.9		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	110		P	80 - 120
Prallethrin	103		P	80 - 120
Tau-Fluvalinate	107		P	80 - 120
Tetramethrin	104		P	80 - 120
Trans-Nonachlor	96.9		P	80 - 120
Triclosan Methyl	93.3		P	80 - 120
Trifluralin	111		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A121111

Included Lab Sample IDs: 2430423, 2430425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.6	97.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121111

Included Lab Sample IDs: 2430423, 2430425

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121154

Included Lab Sample IDs: 2430424, 2430426

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A121282

Included Lab Sample IDs: 2430424, 2430426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121339

Included Lab Sample IDs: 2430423, 2430425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	109	P/P	90 - 110
Sulfate	100	102	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	98.8				0.906	
EPA 180.1 Rev. 2.0	Turbidity	99.8				0.866	
EPA 300.0 Rev. 2.1	Chloride	101	103	103		0.243	
	Sulfate	101	101	102		0.572	
EPA 350.1 Rev. 2.0	Ammonia-N	100	101	102			0.158
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	102	104			2.12
EPA 353.2 Rev. 2.0	NO2NO3-N	101	101	101			0.0
EPA 365.1 Rev. 2.0	Total-P	103	102	106			3.23
EPA 8270E	Aldrin	65.6	32.3	37.6			14.9
	Alpha-BHC	102	81.1	89.6			9.96
	Alpha-Chlordane	63.8	45.1	44.7			0.887
	Beta-BHC	83.8	78.2	85.6			9.08
	Beta-Cyfluthrin	95.7	60.9	61.7			1.38
	Bifenthrin	68.7	49.0	50.4			2.80
	Carbophenothion	60.0	21.6	24.0			10.8
	Chlorothalonil	61.4	72.1	83.2			14.3
	Cis-Nonachlor	57.7	41.5	41.6			0.0414
	Cypermethrin	111	72.9	72.9			0.0096
	Dacthal	87.7	61.9	71.2			14.0
	DDD-p,p'	64.2	51.3	50.0			2.50
	DDE-p,p'	68.6	51.2	53.5			4.47
	DDT-p,p'	61.9	44.9	45.3			0.914
	Delta-BHC	85.6	91.5	99.5			8.38
	Deltamethrin	106	77.8	69.3			11.6
	Dichlobenil	60.7	49.9	54.0			7.91
	Dicofol	68.6	45.4	44.9			1.21
	Dieldrin	65.4	45.3	49.2			8.21
	Endosulfan I	76.8	52.7	52.3			0.808
	Endosulfan II	69.4	59.5	61.0			2.46
	Endosulfan Sulfate	70.2	54.6	52.4			4.13
	Endrin	71.8	49.5	53.2			7.22
	Endrin Aldehyde	62.0	58.3	44.1			27.7
	Endrin Ketone	85.0	85.3	73.9			14.3
	Esfenvalerate	107	73.5	85.9			15.5
	Ethalfuralin	88.4	54.7	59.6			8.64
	Fenpropathrin	75.8	45.7	48.0			4.92
	Gamma-BHC	73.3	70.1	79.0			12.0
	Gamma-Chlordane	71.1	46.6	48.0			2.84
	Heptachlor	61.8	38.4	41.9			8.72
	Heptachlor Epoxide	79.4	52.5	53.4			1.75
	Hexachlorobenzene	55.1	37.7	40.7			7.67
	Kepone	81.6	68.4	66.6			2.73
	Lambda-Cyhalothrin	82.1	56.2	62.3			10.4
	Methoprene	75.9	50.2	51.2			2.04
	Methoxychlor	111	77.2	69.8			9.98
	MGK-264	76.6	71.3	68.8			3.50
	Mirex	67.0	41.8	44.6			6.39
	Oxychlordane	82.9	51.4	52.3			1.72
	PCB-1016	64.4	53.6	57.8			7.57
	PCB-1260	81.5	66.5	66.3			0.232
	Permethrin	83.4	60.6	84.9			33.4
	Phenothrin	73.7	55.1	58.4			5.77
	Piperonyl Butoxide	149	147	141			3.67
	Prallethrin	80.8	58.7	69.9			17.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8270E	Tau-Fluvalinate	111	73.7	97.8		
	Tetramethrin	106	80.1	97.7		
	Trans-Nonachlor	89.9	53.8	57.4		
	Triclosan Methyl	98.1	61.7	55.4		
	Trifluralin	86.5	48.1	48.6		
EPA 8276	Chlordane	83.8	78.1	75.0		
	Toxaphene	96.0	92.4	93.6		
EPA 8321B	2,4-D	71.5	88.5	97.5		
	2,4,5-T	70.0	113	109		
	Acesulfame K	110	117	119		
	Acetaminophen	73.7	62.7	64.4		
	Acetamiprid	76.5	29.0	38.9		
	Afidopyropen	46.7	50.0	65.0		
	AMPA	81.8	95.8	106		
	Bentazon	146				
	Benzovindiflupyr	63.5	61.7	51.1		
	Carbamazepine	53.7	34.1	37.4		
	Clothianidin	96.0	61.0	57.3		
	Dinotefuran	140	48.1	53.3		
	Diuron	54.7	34.3	32.4		
	Endothall	97.7	110	97.5		
	Fenuron	103	41.0	38.6		
	Fluridone	107				
	Glufosinate	101	96.1	95.3		
	Glyphosate	120	99.0	99.5		
	Hydrocodone	92.2	44.5	44.4		
	Ibuprofen	60.5	59.5	73.8		
	Imazapyr	96.2	104	97.6		
	Imidacloprid	78.3	80.1	86.8		
	Linuron	92.0	59.5	57.4		
	Mandestrobin	83.7	92.2	80.6		
	MCPP	84.7	115	105		
	Naproxen	54.8	73.0	55.3		
	Primidone	97.6	64.1	64.0		
	Pyraclostrobin	64.4	62.1	65.7		
	Silvex	81.1	105	107		
	Sucralose	92.4	89.0	90.6		
	Thiamethoxam	90.8	58.3	55.8		
	Tolfenpyrad	50.5	64.8	54.8		
	Triclopyr	70.2	101	98.5		
SM 2320 B-2011	Total Alkalinity	96.2			1.87	
SM 2540 C-2015	TDS	94.8			7.73	
SM 2540 D-2015	TSS	92.3				
SM 4500-F- C-2011	Fluoride	101				0.511
SM 5310 B-2011	Organic Carbon	93.6	93.8	96.2		1.72

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2430423, 2430425
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2430423, 2430425
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2430423, 2430425
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2430423, 2430425

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2430424, 2430426
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2430424, 2430426
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2430424, 2430426
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2430424, 2430426
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2430431, 2430432
EPA 8270E	PCBs in water matrices by GC/MS/MS	2430431, 2430432
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2430431, 2430432
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2430433
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2430423, 2430425
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2430423, 2430425
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2430423, 2430425
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2430423, 2430425
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2430424, 2430426

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	08/10/2023			08/10/2023 14:41	Samantha L Bates	2430423
	08/10/2023			08/10/2023 14:42	Samantha L Bates	2430425
EPA 180.1 Rev. 2.0	08/10/2023			08/10/2023 13:57	Alexis Price	2430423
	08/10/2023			08/10/2023 13:59	Alexis Price	2430425
EPA 300.0 Rev. 2.1	08/10/2023			08/29/2023 06:42	James L Waggeberby	2430423
	08/10/2023			08/29/2023 07:00	James L Waggeberby	2430425
EPA 350.1 Rev. 2.0	08/10/2023			08/21/2023 13:40	Khloe J Berg	2430424
	08/10/2023			08/21/2023 13:42	Khloe J Berg	2430426
EPA 351.2 Rev. 2.0	08/10/2023	08/14/2023 13:41	Ping Hua	08/15/2023 16:51	Ping Hua	2430424
	08/10/2023	08/14/2023 13:41	Ping Hua	08/15/2023 16:52	Ping Hua	2430426
EPA 353.2 Rev. 2.0	08/10/2023			08/28/2023 10:12	Beverly Y. Sanders	2430424
	08/10/2023			08/28/2023 10:13	Beverly Y. Sanders	2430426
EPA 365.1 Rev. 2.0	08/10/2023	08/14/2023 15:42	Adam P Silver	08/15/2023 09:33	James L Waggeberby	2430424
	08/10/2023	08/14/2023 15:42	Adam P Silver	08/15/2023 09:34	James L Waggeberby	2430426
EPA 8270E	08/10/2023	08/11/2023 08:00	Fe-Val Siddell	08/15/2023 01:09	Julie Wi	2430431
	08/10/2023	08/11/2023 08:00	Fe-Val Siddell	08/15/2023 01:39	Julie Wi	2430432
	08/10/2023	08/11/2023 08:00	Fe-Val Siddell	08/15/2023 03:05	Julie Wi	2430431
	08/10/2023	08/11/2023 08:00	Fe-Val Siddell	08/15/2023 03:35	Julie Wi	2430432
EPA 8276	08/10/2023	08/11/2023 08:00	Fe-Val Siddell	08/15/2023 12:37	Arthur Maknenko	2430431
	08/10/2023	08/11/2023 08:00	Fe-Val Siddell	08/15/2023 13:33	Arthur Maknenko	2430432
EPA 8321B	08/10/2023	08/11/2023 09:00	Hana Lee	08/11/2023 14:17	Tae K Lee	2430433
	08/10/2023	08/11/2023 09:00	Hana Lee	08/12/2023 05:14	Tae K Lee	2430433
	08/10/2023	08/11/2023 09:00	Hoor Shaik	08/16/2023 00:42	Juyoung Kim	2430433
SM 2320 B-2011	08/10/2023			08/17/2023 03:53	Dale L. Simmons	2430423
	08/10/2023			08/17/2023 04:06	Dale L. Simmons	2430425
SM 2540 C-2015	08/10/2023			08/15/2023 14:46	Yijie Li	2430423, 2430425
SM 2540 D-2015	08/10/2023			08/15/2023 14:46	Yijie Li	2430423, 2430425
SM 4500-F- C-2011	08/10/2023			08/17/2023 03:53	Dale L. Simmons	2430423
	08/10/2023			08/17/2023 04:06	Dale L. Simmons	2430425
SM 5310 B-2011	08/10/2023			08/15/2023 02:54	Elise M. Gillis	2430424
	08/10/2023			08/15/2023 03:09	Elise M. Gillis	2430426