

Chemical Analysis Report

SO-DIST-2024-04-25-03

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

Event Description: **2024 SMP: Okee Canals**
Request ID: **RQ-2024-04-22-19**
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: 24-MAY-2024 10:47



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: C 2444 AT BEAN CITY

Collection Date/Time: 04/24/2024 09:40

Field ID: G5SD0132

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2484952	DEP SOP: NU-094-1	Color (true)	56		PCU	P444800	
	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P444823	
	EPA 300.0 Rev. 2.1	Chloride	71		mg Cl/L	P445537	
		Sulfate	37		mg SO4/L	P445540	
	SM 2320 B-2011	Total Alkalinity	165		mg CaCO3/L	P444981	
	SM 2540 C-2015	TDS	379		mg/L	P445463	
	SM 2540 D-2015	TSS	8	I	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.26		mg F/L	P445603	
2484954	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P445066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P444921	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.01	I	mg N/L	P445453	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P444932	
	SM 5310 B-2014	Organic Carbon	18		mg C/L	P444941	

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

Sample Location: C 19 CANAL

Collection Date/Time: 04/24/2024 10:30

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2484960	EPA 8270E	Aldrin	0.68	U	ng/L	P444846	
		Alpha-BHC	0.11	U	ng/L	P444846	
		Alpha-Chlordane	0.21	U	ng/L	P444846	
		PCB-1016	2.1	U	ng/L	P444846	
		Beta-BHC	0.11	U	ng/L	P444846	
		PCB-1221	2.1	U	ng/L	P444846	
		Beta-Cyfluthrin	1.3	U	ng/L	P444846	
		PCB-1232	2.1	U	ng/L	P444846	
		Bifenthrin	0.53	U	ng/L	P444846	
		PCB-1242	2.1	U	ng/L	P444846	
		PCB-1248	2.1	U	ng/L	P444846	
		Chlorothalonil	3.8	U	ng/L	P444846	
		PCB-1254	2.1	U	ng/L	P444846	
		Cis-Nonachlor	0.21	U	ng/L	P444846	
		PCB-1260	2.1	U	ng/L	P444846	
		Cypermethrin	1.6	UJ	ng/L	P444846	LCS, MS
		Dacthal	0.16	U	ng/L	P444846	
		DDD-p,p'	0.26	U	ng/L	P444846	
		DDE-p,p'	0.21	U	ng/L	P444846	
		DDT-p,p'	0.84	U	ng/L	P444846	
		Delta-BHC	0.42	U	ng/L	P444846	
		Deltamethrin	1.3	UJ	ng/L	P444846	LCS, MS
		Dichlobenil	0.26	U	ng/L	P444846	
		Dicofol	1.3	U	ng/L	P444846	
		Dieldrin	0.42	U	ng/L	P444846	
		Endosulfan I	0.42	U	ng/L	P444846	
		Endosulfan II	0.95	U	ng/L	P444846	
		Endosulfan Sulfate	0.32	U	ng/L	P444846	
		Endrin	0.95	U	ng/L	P444846	
		Endrin Aldehyde	0.79	U	ng/L	P444846	
		Endrin Ketone	0.42	U	ng/L	P444846	
		Esfenvalerate	0.79	UJ	ng/L	P444846	LCS, MS
		Ethalfuralin	0.16	U	ng/L	P444846	
		Fenpropathrin	0.26	U	ng/L	P444846	
		Gamma-BHC	0.13	U	ng/L	P444846	
		Gamma-Chlordane	0.21	U	ng/L	P444846	
		Heptachlor	0.21	U	ng/L	P444846	
		Heptachlor Epoxide	0.26	U	ng/L	P444846	
		Hexachlorobenzene**	1.1	U	ng/L	P444846	
		Kepone	14	U	ng/L	P444846	
		Lambda-Cyhalothrin	0.79	U	ng/L	P444846	
		Methoprene	0.79	U	ng/L	P444846	
		Methoxychlor	0.32	U	ng/L	P444846	
		MGK-264	0.21	U	ng/L	P444846	

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2484960	EPA 8270E	Mirex	0.37	U	ng/L	P444846	LCS, MS
		Oxychlordane	0.32	U	ng/L	P444846	
		Permethrin	1.7	U	ng/L	P444846	
		Phenothrin	0.95	U	ng/L	P444846	
		Piperonyl Butoxide	0.16	U	ng/L	P444846	
		Prallethrin	2.1	U	ng/L	P444846	
		Tau-Fluvalinate	0.26	UJ	ng/L	P444846	
		Tetramethrin	0.79	U	ng/L	P444846	
		Trans-Nonachlor	0.21	U	ng/L	P444846	
		Triclosan Methyl	0.16	U	ng/L	P444846	
		Trifluralin	0.21	U	ng/L	P444846	
	EPA 8276	Chlordane	2.1	U	ng/L	P444846	
		Toxaphene	16	U	ng/L	P444846	

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

Sample Location: L 61W

Collection Date/Time: 04/24/2024 11:10

Field ID: G4SD0194				Matrix: W-SURF-FRH			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2484953	DEP SOP: NU-094-1	Color (true)	130		PCU	P444800	
	EPA 180.1 Rev. 2.0	Turbidity	3.3		NTU	P444823	
	EPA 300.0 Rev. 2.1	Chloride	47		mg Cl/L	P445537	
		Sulfate	42		mg SO4/L	P445540	
	SM 2320 B-2011	Total Alkalinity	68		mg CaCO3/L	P444981	
	SM 2540 C-2015	TDS	266		mg/L	P445463	
	SM 2540 D-2015	TSS	6	I	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.10		mg F/L	P445603	
2484955	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P445066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P444921	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P445453	
	EPA 365.1 Rev. 2.0	Total-P	0.070		mg P/L	P444932	
	SM 5310 B-2014	Organic Carbon	22		mg C/L	P444941	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P444800

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444823

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445537

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445540

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444921

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445453

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444932

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

Reference Method: EPA 8270E
Batch ID: P444846

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P444846

Component	Result	Code	Units
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8276
Batch ID: P444846

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

Reference Method: SM 2320 B-2011
Batch ID: P444981

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

Reference Method: SM 2540 C-2015
Batch ID: P445463

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P445492

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P445603

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P444941

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: P444800

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	92.6		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444823

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445537

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445540

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444921

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445453

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444932

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

Reference Method: EPA 8270E
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.2		P	30 - 96.0
Alpha-BHC	93.8		P	70 - 109
Alpha-Chlordane	81.1		P	45 - 107
Beta-BHC	112		P	64 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	139		P	17 - 141
Bifenthrin	99.2		P	10 - 113
Chlorothalonil	122		P	26 - 180
Cis-Nonachlor	82.3		P	37 - 102
Cypermethrin	145		F	20 - 133
Dacthal	91.8		P	69 - 114
DDD-p,p'	82.4		P	42 - 105
DDE-p,p'	86.6		P	42 - 106
DDT-p,p'	82.6		P	42 - 107
Delta-BHC	128		P	67 - 144
Deltamethrin	248		F	15 - 149
Dichlobenil	55.5		P	46 - 117
Dicofol	78.2		P	34 - 114
Dieldrin	81.8		P	50 - 108
Endosulfan I	92.4		P	55 - 104
Endosulfan II	92.5		P	51 - 111
Endosulfan Sulfate	102		P	56 - 121
Endrin	88.6		P	10 - 106
Endrin Aldehyde	63.8		P	34 - 114
Endrin Ketone	86.3		P	63 - 177
Esfenvalerate	196		F	29 - 143
Ethalfuralin	82.0		P	46 - 96.0
Fenpropathrin	97.8		P	28 - 115
Gamma-BHC	84.2		P	65 - 121
Gamma-Chlordane	87.0		P	39 - 103
Heptachlor	78.0		P	39 - 94.0
Heptachlor Epoxide	86.2		P	54 - 104
Hexachlorobenzene	84.4		P	36 - 100
Kepone	113		P	10 - 225
Lambda-Cyhalothrin	116		P	10 - 135
Methoprene	84.2		P	10 - 109
Methoxychlor	103		P	52 - 112
MGK-264	73.8		P	44 - 117
Mirex	85.8		P	20 - 90.0
Oxychlordane	81.0		P	44 - 102
PCB-1016	51.8		P	45 - 107
PCB-1260	77.1		P	40 - 118
Permethrin	128		P	18 - 135
Phenothrin	83.4		P	10 - 102
Piperonyl Butoxide	85.8		P	28 - 156
Prallethrin	78.3		P	28 - 113
Tau-Fluvalinate	183		F	10 - 123
Tetramethrin	87.4		P	18 - 158
Trans-Nonachlor	89.9		P	39 - 104
Triclosan Methyl	91.2		P	54 - 108
Trifluralin	80.9		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	75.7		P	52 - 117

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	74.3		P	44 - 125

Reference Method: SM 2320 B-2011
Batch ID: P444981

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P445463

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

Reference Method: SM 2540 D-2015
Batch ID: P445492

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P445603

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.0		P	95 - 106

Reference Method: SM 5310 B-2014
Batch ID: P444941

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445537

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2486932	Chloride	108		P	90 - 110
2487267	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2486932	Sulfate	104		P	90 - 110
2487267	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484924	Ammonia-N	96.8	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484880	Kjeldahl Nitrogen	100	90.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484812	NO2NO3-N	98.0	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444932

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484879	Total-P	102	98.0	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484861	Aldrin	68.1	67.3	P/P	24 - 81.0
2484861	Alpha-BHC	92.2	92.7	P/P	65 - 110
2484861	Alpha-Chlordane	73.9	86.1	P/P	43 - 119
2484861	Beta-BHC	106	105	P/P	54 - 165
2484861	Beta-Cyfluthrin	136	153	P/P	27 - 165
2484861	Bifenthrin	93.1	102	P/P	17 - 117
2484861	Chlorothalonil	172	231	P/P	10 - 255
2484861	Cis-Nonachlor	76.0	73.0	P/P	34 - 98.0
2484861	Cypermethrin	147	174	F/F	25 - 143
2484861	Dacthal	87.6	93.2	P/P	55 - 139
2484861	DDD-p,p'	79.4	74.9	P/P	30 - 109
2484861	DDE-p,p'	74.7	75.6	P/P	35 - 106
2484861	DDT-p,p'	81.4	87.4	P/P	41 - 101
2484861	Delta-BHC	123	149	P/P	58 - 165

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484861	Deltamethrin	184	227	P/F	10 - 194
2484861	Dichlobenil	63.5	55.1	P/P	22 - 114
2484861	Dicofol	71.9	65.7	P/P	17 - 133
2484861	Dieldrin	75.5	77.0	P/P	45 - 129
2484861	Endosulfan I	87.9	103	P/P	49 - 104
2484861	Endosulfan II	90.4	104	P/P	37 - 117
2484861	Endosulfan Sulfate	89.3	95.2	P/P	38 - 128
2484861	Endrin	82.3	80.0	P/P	35 - 116
2484861	Endrin Aldehyde	64.2	77.3	P/P	19 - 108
2484861	Endrin Ketone	81.8	87.7	P/P	44 - 134
2484861	Esfenvalerate	172	206	P/F	27 - 176
2484861	Ethalfuralin	80.7	71.8	P/P	49 - 100
2484861	Fenpropathrin	93.4	100	P/P	34 - 117
2484861	Gamma-BHC	85.4	90.4	P/P	59 - 129
2484861	Gamma-Chlordane	78.4	86.8	P/P	33 - 107
2484861	Heptachlor	72.7	71.7	P/P	37 - 94.0
2484861	Heptachlor Epoxide	80.7	85.8	P/P	38 - 118
2484861	Hexachlorobenzene	74.7	63.8	P/P	35 - 97.0
2484861	Kepone	95.4	95.8	P/P	10 - 221
2484861	Lambda-Cyhalothrin	136	149	P/P	23 - 190
2484861	Methoprene	87.9	97.9	P/P	21 - 109
2484861	Methoxychlor	89.3	106	P/P	46 - 118
2484861	MGK-264	87.3	95.7	P/P	39 - 122
2484861	Mirex	74.7	85.2	P/P	25 - 90.0
2484861	Oxychlordane	79.2	89.6	P/P	42 - 100
2484861	Permethrin	130	142	P/P	33 - 181
2484861	Phenothrin	113	117	P/P	12 - 125
2484861	Piperonyl Butoxide	79.8	78.8	P/P	10 - 178
2484861	Prallethrin	96.5	97.0	P/P	24 - 122
2484861	Tau-Fluvalinate	196	224	F/F	13 - 151
2484861	Tetramethrin	104	109	P/P	16 - 172
2484861	Trans-Nonachlor	77.5	90.2	P/P	39 - 100
2484861	Triclosan Methyl	83.2	88.5	P/P	43 - 110
2484861	Trifluralin	73.5	69.7	P/P	45 - 94.0
2485219	PCB-1016	62.1	65.1	P/P	45 - 107
2485219	PCB-1260	84.6	91.3	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485219	Chlordane	79.6	87.9	P/P	43 - 123
2485219	Toxaphene	89.7	94.3	P/P	27 - 156

Reference Method: SM 4500-F- C-2011
Batch ID: P445603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485831	Fluoride	99.7	101	P/P	95 - 107

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P444941

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484846	Organic Carbon	96.5	98.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P444800

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484877	Color (true)	3.01	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484770	Turbidity	2.44	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2486932	Chloride	0.563	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2486932	Sulfate	0.552	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484924	Ammonia-N	1.50	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484880	Kjeldahl Nitrogen	5.57	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484812	NO2NO3-N	1.54	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484879	Total-P	3.40	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P444846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484861	Aldrin	1.20	Spike	P	0 - 41
2484861	Alpha-BHC	0.566	Spike	P	0 - 25
2484861	Alpha-Chlordane	15.3	Spike	P	0 - 32
2484861	Beta-BHC	1.12	Spike	P	0 - 33
2484861	Beta-Cyfluthrin	12.1	Spike	P	0 - 43
2484861	Bifenthrin	9.66	Spike	P	0 - 52
2484861	Chlorothalonil	29.2	Spike	P	0 - 82
2484861	Cis-Nonachlor	3.93	Spike	P	0 - 33
2484861	Cypermethrin	16.5	Spike	P	0 - 51
2484861	Dacthal	6.20	Spike	P	0 - 27
2484861	DDD-p,p'	5.85	Spike	P	0 - 39
2484861	DDE-p,p'	1.14	Spike	P	0 - 31
2484861	DDT-p,p'	7.08	Spike	P	0 - 29
2484861	Delta-BHC	19.4	Spike	P	0 - 35
2484861	Deltamethrin	21.1	Spike	P	0 - 100
2484861	Dichlobenil	14.3	Spike	P	0 - 40
2484861	Dicofol	8.91	Spike	P	0 - 37
2484861	Dieldrin	2.01	Spike	P	0 - 27
2484861	Endosulfan I	15.4	Spike	P	0 - 23
2484861	Endosulfan II	13.9	Spike	P	0 - 34
2484861	Endosulfan Sulfate	6.37	Spike	P	0 - 36
2484861	Endrin	2.88	Spike	P	0 - 45
2484861	Endrin Aldehyde	18.5	Spike	P	0 - 76
2484861	Endrin Ketone	7.00	Spike	P	0 - 43
2484861	Esfenvalerate	18.3	Spike	P	0 - 51
2484861	Ethalfuralin	11.7	Spike	P	0 - 22
2484861	Fenpropathrin	7.22	Spike	P	0 - 49
2484861	Gamma-BHC	5.66	Spike	P	0 - 28
2484861	Gamma-Chlordane	10.2	Spike	P	0 - 40
2484861	Heptachlor	1.39	Spike	P	0 - 29
2484861	Heptachlor Epoxide	6.13	Spike	P	0 - 33
2484861	Hexachlorobenzene	15.8	Spike	P	0 - 36
2484861	Kepone	0.421	Spike	P	0 - 85
2484861	Lambda-Cyhalothrin	9.17	Spike	P	0 - 55
2484861	Methoprene	10.7	Spike	P	0 - 53
2484861	Methoxychlor	17.4	Spike	P	0 - 50
2484861	MGK-264	9.13	Spike	P	0 - 43
2484861	Mirex	13.1	Spike	P	0 - 40
2484861	Oxychlordane	12.4	Spike	P	0 - 31
2484861	Permethrin	8.50	Spike	P	0 - 50
2484861	Phenothrin	3.22	Spike	P	0 - 58
2484861	Piperonyl Butoxide	1.30	Spike	P	0 - 100
2484861	Prallethrin	0.587	Spike	P	0 - 39
2484861	Tau-Fluvalinate	13.4	Spike	P	0 - 54
2484861	Tetramethrin	4.91	Spike	P	0 - 51
2484861	Trans-Nonachlor	15.2	Spike	P	0 - 39
2484861	Triclosan Methyl	6.12	Spike	P	0 - 31
2484861	Trifluralin	5.25	Spike	P	0 - 22
2485219	PCB-1016	4.65	Spike	P	0 - 25
2485219	PCB-1260	7.66	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P444846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485219	Chlordane	9.94	Spike	P	0 - 28
2485219	Toxaphene	5.00	Spike	P	0 - 27

Reference Method: SM 2320 B-2011
Batch ID: P444981

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484811	Total Alkalinity	1.43	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P445463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484811	TDS	7.35	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P445603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485831	Fluoride	1.06	Spike	P	0 - 1.7

Reference Method: SM 5310 B-2014
Batch ID: P444941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484846	Organic Carbon	1.62	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2484960
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	103	P	37 - 129
EPA 8270E	Decachlorobiphenyl	102	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	58.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	56.6	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	50.1	P	23 - 110
EPA 8276	PCNB	83.9	P	51 - 130

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A125526
Included Lab Sample IDs: 2484952, 2484953

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.9	98.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A125532
Included Lab Sample IDs: 2484952, 2484953

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: SM 5310 B-2014
Run ID: A125577
Included Lab Sample IDs: 2484954, 2484955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.7	100	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125584
Included Lab Sample IDs: 2484954, 2484955

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

Reference Method: SM 2320 B-2011
Run ID: A125588
Included Lab Sample IDs: 2484952, 2484953

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.6	99.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A125620
Included Lab Sample IDs: 2484954, 2484955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	99.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A125674
Included Lab Sample IDs: 2484954, 2484955

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

Reference Method: EPA 8270E
Run ID: A125753
Included Lab Sample IDs: 2484960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	94.7		P	80 - 120
PCB-1260	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A125756
Included Lab Sample IDs: 2484960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	103		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	99.6		P	80 - 120
Chlorothalonil	93.6		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	107		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	95.4		P	80 - 120
Delta-BHC	103		P	80 - 120
Deltamethrin	109		P	80 - 120
Dichlobenil	95.7		P	80 - 120
Dicofol	94.4		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	109		P	80 - 120
Endosulfan Sulfate	109		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfuralin	103		P	80 - 120
Fenpropathrin	100		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	87.3		P	80 - 120
Lambda-Cyhalothrin	106		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	106		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	103		P	80 - 120
Tau-Fluvalinate	105		P	80 - 120
Tetramethrin	104		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A125759

Included Lab Sample IDs: 2484954, 2484955

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A125768

Included Lab Sample IDs: 2484952, 2484953

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

Reference Method: SM 4500-F- C-2011

Run ID: A125829

Included Lab Sample IDs: 2484952, 2484953

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	97.4	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A125841

Included Lab Sample IDs: 2484960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.4		P	80 - 120
Toxaphene	96.7		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		Precision	
					LCS	SMP
DEP SOP: NU-094-1	Color (true)	92.6				3.01
EPA 180.1 Rev. 2.0	Turbidity	102				2.44
EPA 300.0 Rev. 2.1	Chloride	105	108	105		0.563
	Sulfate	103	104	102		0.552
EPA 350.1 Rev. 2.0	Ammonia-N	94.4	96.8	98.4		1.50
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.6	100	90.0		5.57
EPA 353.2 Rev. 2.0	NO2NO3-N	100	98.0	96.5		1.54
EPA 365.1 Rev. 2.0	Total-P	99.8	102	98.0		3.40
EPA 8270E	Aldrin	61.2	68.1	67.3		1.20
	Alpha-BHC	93.8	92.2	92.7		0.566
	Alpha-Chlordane	81.1	73.9	86.1		15.3
	Beta-BHC	112	106	105		1.12
	Beta-Cyfluthrin	139	136	153		12.1
	Bifenthrin	99.2	93.1	102		9.66
	Chlorothalonil	122	172	231		29.2
	Cis-Nonachlor	82.3	76.0	73.0		3.93
	Cypermethrin	145	147	174		16.5
	Dacthal	91.8	87.6	93.2		6.20
	DDD-p,p'	82.4	79.4	74.9		5.85
	DDE-p,p'	86.6	74.7	75.6		1.14
	DDT-p,p'	82.6	81.4	87.4		7.08
	Delta-BHC	128	123	149		19.4
	Deltamethrin	248	184	227		21.1
	Dichlobenil	55.5	63.5	55.1		14.3
	Dicofol	78.2	71.9	65.7		8.91
	Dieldrin	81.8	75.5	77.0		2.01
	Endosulfan I	92.4	87.9	103		15.4
	Endosulfan II	92.5	90.4	104		13.9
	Endosulfan Sulfate	102	89.3	95.2		6.37
	Endrin	88.6	82.3	80.0		2.88
	Endrin Aldehyde	63.8	64.2	77.3		18.5
	Endrin Ketone	86.3	81.8	87.7		7.00
	Esfenvalerate	196	172	206		18.3
	Ethalfuralin	82.0	80.7	71.8		11.7
	Fenpropathrin	97.8	93.4	100		7.22
	Gamma-BHC	84.2	85.4	90.4		5.66
	Gamma-Chlordane	87.0	78.4	86.8		10.2
	Heptachlor	78.0	72.7	71.7		1.39
	Heptachlor Epoxide	86.2	80.7	85.8		6.13
	Hexachlorobenzene	84.4	74.7	63.8		15.8
	Kepone	113	95.4	95.8		0.421
	Lambda-Cyhalothrin	116	136	149		9.17
	Methoprene	84.2	87.9	97.9		10.7
	Methoxychlor	103	89.3	106		17.4
	MGK-264	73.8	87.3	95.7		9.13
	Mirex	85.8	74.7	85.2		13.1
	Oxychlordane	81.0	79.2	89.6		12.4
	PCB-1016	51.8	62.1	65.1		4.65
	PCB-1260	77.1	84.6	91.3		7.66
	Permethrin	128	130	142		8.50
	Phenothrin	83.4	113	117		3.22
	Piperonyl Butoxide	85.8	79.8	78.8		1.30
	Prallethrin	78.3	96.5	97.0		0.587
	Tau-Fluvalinate	183	196	224		13.4

Quality Assurance Report

Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8270E	Tetramethrin	87.4	104	109	SMP	4.91
	Trans-Nonachlor	89.9	77.5	90.2		15.2
	Triclosan Methyl	91.2	83.2	88.5		6.12
	Trifluralin	80.9	73.5	69.7		5.25
EPA 8276	Chlordane	75.7	79.6	87.9		9.94
	Toxaphene	74.3	89.7	94.3		5.00
SM 2320 B-2011	Total Alkalinity	100			1.43	
SM 2540 C-2015	TDS	93.6			7.35	
SM 2540 D-2015	TSS	102				
SM 4500-F- C-2011	Fluoride	96.0	99.7	101		1.06
SM 5310 B-2014	Organic Carbon	101	96.5	98.1		1.62

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2484952, 2484953
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2484952, 2484953
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2484952, 2484953
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2484952, 2484953
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2484954, 2484955
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2484954, 2484955
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2484954, 2484955
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2484954, 2484955
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2484960
EPA 8270E	PCBs in water matrices by GC/MS/MS	2484960
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2484960
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2484952, 2484953
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2484952, 2484953
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2484952, 2484953
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2484952, 2484953
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2484954, 2484955

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	04/25/2024			04/25/2024 12:27	Jessica K Wilks	2484952, 2484953
EPA 180.1 Rev. 2.0	04/25/2024			04/25/2024 13:48	Khloe J Berg	2484952
	04/25/2024			04/25/2024 13:49	Khloe J Berg	2484953
EPA 300.0 Rev. 2.1	04/25/2024			05/09/2024 21:52	James L Waggeberby	2484952
	04/25/2024			05/09/2024 22:07	James L Waggeberby	2484953
EPA 350.1 Rev. 2.0	04/25/2024			05/01/2024 13:16	Khloe J Berg	2484954
	04/25/2024			05/01/2024 13:18	Khloe J Berg	2484955
EPA 351.2 Rev. 2.0	04/25/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 13:46	Robyn Blevins	2484954
	04/25/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 13:48	Robyn Blevins	2484955
EPA 353.2 Rev. 2.0	04/25/2024			05/08/2024 12:59	Fadila Guebre	2484954
	04/25/2024			05/08/2024 13:00	Fadila Guebre	2484955
EPA 365.1 Rev. 2.0	04/25/2024	04/29/2024 14:43	Josephine W Gitau	04/30/2024 10:31	Elise M. Gillis	2484954
	04/25/2024	04/29/2024 14:43	Josephine W Gitau	04/30/2024 10:32	Elise M. Gillis	2484955
EPA 8270E	04/25/2024	04/29/2024 08:00	Rasheda Ghaffari	05/03/2024 05:13	Lipi Saha	2484960
	04/25/2024	04/29/2024 08:00	Rasheda Ghaffari	05/03/2024 23:41	Kenedi Mills	2484960
EPA 8276	04/25/2024	04/29/2024 08:00	Rasheda Ghaffari	05/04/2024 15:19	Arthur Maknenko	2484960
SM 2320 B-2011	04/25/2024			04/30/2024 05:56	Adam P Silver	2484952
	04/25/2024			04/30/2024 06:07	Adam P Silver	2484953
SM 2540 C-2015	04/25/2024			04/30/2024 15:24	Yijie Li	2484952, 2484953
SM 2540 D-2015	04/25/2024			04/30/2024 15:24	Yijie Li	2484952, 2484953
SM 4500-F- C-2011	04/25/2024			05/21/2024 16:51	Dale L. Simmons	2484952
	04/25/2024			05/21/2024 16:56	Dale L. Simmons	2484953
SM 5310 B-2014	04/25/2024			04/29/2024 19:19	Khloe J Berg	2484954
	04/25/2024			04/29/2024 19:33	Khloe J Berg	2484955