

Chemical Analysis Report

NE-DIST-2024-04-23-01

Florida DEP Laboratory
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DOH Accreditation E31780

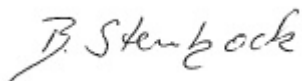
Event Description: **Alachua Lakes**
Request ID: **RQ-2024-04-22-08**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 20-MAY-2024 17:49



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: BIVENS ARM LAKE

Collection Date/Time: 04/22/2024 10:45

Field ID: 20020097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2484187	EPA 180.1 Rev. 2.0	Turbidity	29		NTU	P444682	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P445116	
		Sulfate	14		mg SO4/L	P445118	
	SM 2320 B-2011	Total Alkalinity	66		mg CaCO3/L	P444980	
	SM 2540 C-2015	TDS	97		mg/L	P445283	
	SM 2540 D-2015	TSS	37		mg/L	P445050	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P445378	
2484191	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P444728	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	3.0		mg N/L	P445315	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P445304	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P444855	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P444967	

Sample Location: LAKE ALICE CENTER

Collection Date/Time: 04/22/2024 11:15

Field ID: 20020052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2484185	DEP SOP: NU-094-1	Color (true)	26		PCU	P444678	
	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P444682	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P445116	
		Sulfate	29		mg SO4/L	P445118	
	SM 2320 B-2011	Total Alkalinity	70	A	mg CaCO3/L	P444980	
	SM 2540 C-2015	TDS	160		mg/L	P445283	
	SM 2540 D-2015	TSS	3	I	mg/L	P445050	
2484186	SM 4500-F- C-2011	Fluoride	0.29		mg F/L	P445378	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P444728	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P445315	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P445304	
	EPA 365.1 Rev. 2.0	Total-P	0.57		mg P/L	P444855	
2484196	SM 5310 B-2014	Organic Carbon	8.5		mg C/L	P444967	
	EPA 8270E	Aldrin	0.67	U	ng/L	P444700	
		Alpha-BHC	0.10	U	ng/L	P444700	
		Alpha-Chlordane	0.20	U	ng/L	P444700	
		PCB-1016	2.0	U	ng/L	P444700	
		Beta-BHC	0.10	U	ng/L	P444700	
		PCB-1221	2.0	U	ng/L	P444700	
		Beta-Cyfluthrin	1.3	U	ng/L	P444700	
		PCB-1232	2.0	U	ng/L	P444700	
		Bifenthrin	0.51	U	ng/L	P444700	
		PCB-1242	2.0	U	ng/L	P444700	
		PCB-1248	2.0	U	ng/L	P444700	
		Chlorothalonil	3.7	U	ng/L	P444700	
		PCB-1254	2.0	U	ng/L	P444700	
		Cis-Nonachlor	0.20	U	ng/L	P444700	
		PCB-1260	2.0	U	ng/L	P444700	
		Cypermethrin	1.5	U	ng/L	P444700	
		Dacthal	0.15	U	ng/L	P444700	
		DDD-p,p'	0.26	U	ng/L	P444700	
		DDE-p,p'	0.20	U	ng/L	P444700	
		DDT-p,p'	0.82	U	ng/L	P444700	
		Delta-BHC	0.41	U	ng/L	P444700	
		Deltamethrin	1.3	U	ng/L	P444700	
		Dichlobenil	0.26	U	ng/L	P444700	
		Dicofol	1.3	U	ng/L	P444700	
		Diieldrin	0.41	U	ng/L	P444700	
		Endosulfan I	0.41	U	ng/L	P444700	
		Endosulfan II	0.92	U	ng/L	P444700	
		Endosulfan Sulfate	0.31	U	ng/L	P444700	
		Endrin	0.92	U	ng/L	P444700	
		Endrin Aldehyde	0.77	U	ng/L	P444700	
		Endrin Ketone	0.41	U	ng/L	P444700	

Field ID: 20020052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2484196	EPA 8270E	Esfenvalerate	0.77	U	ng/L	P444700	
		Ethalfuralin	0.15	U	ng/L	P444700	
		Fenpropathrin	0.26	U	ng/L	P444700	
		Gamma-BHC	0.13	U	ng/L	P444700	
		Gamma-Chlordane	0.20	U	ng/L	P444700	
		Heptachlor	0.20	U	ng/L	P444700	
		Heptachlor Epoxide	0.26	U	ng/L	P444700	
		Hexachlorobenzene**	1.0	U	ng/L	P444700	
		Kepone	14	U	ng/L	P444700	
		Lambda-Cyhalothrin	0.77	U	ng/L	P444700	
		Methoprene	0.77	U	ng/L	P444700	
		Methoxychlor	0.31	U	ng/L	P444700	
		MGK-264	0.20	U	ng/L	P444700	
		Mirex	0.36	U	ng/L	P444700	
		Oxychlordane	0.31	U	ng/L	P444700	
		Permethrin	1.6	U	ng/L	P444700	
		Phenothrin	0.92	U	ng/L	P444700	
		Piperonyl Butoxide	0.59	I	ng/L	P444700	
		Prallethrin	2.0	U	ng/L	P444700	
		Tau-Fluvalinate	0.26	U	ng/L	P444700	
		Tetramethrin	0.77	U	ng/L	P444700	
		Trans-Nonachlor	0.20	U	ng/L	P444700	
		Triclosan Methyl	0.15	U	ng/L	P444700	
		Trifluralin	0.20	U	ng/L	P444700	
	EPA 8276	Chlordane	2.0	U	ng/L	P444700	
		Toxaphene	15	U	ng/L	P444700	

Sample Location: HAMMOCK LAKE

Collection Date/Time: 04/22/2024 12:00

Field ID: G3NE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2484188	EPA 180.1 Rev. 2.0	Turbidity	5.2		NTU	P444682	
	EPA 300.0 Rev. 2.1	Chloride	43		mg Cl/L	P445116	
		Sulfate	8.9		mg SO4/L	P445118	
	SM 2320 B-2011	Total Alkalinity	71		mg CaCO3/L	P444980	
	SM 2540 C-2015	TDS	188		mg/L	P445283	
	SM 2540 D-2015	TSS	9	I	mg/L	P445050	
	SM 4500-F- C-2011	Fluoride	0.22		mg F/L	P445378	
2484192	EPA 350.1 Rev. 2.0	Ammonia-N	0.041		mg N/L	P444729	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P445315	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P445304	
	EPA 365.1 Rev. 2.0	Total-P	0.40		mg P/L	P444855	
	SM 5310 B-2014	Organic Carbon	11		mg C/L	P444967	

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P444678

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444682

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445116

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445118

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444728

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444729

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445315

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445304

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444855

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P444700

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P444700

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

Reference Method: EPA 8276
Batch ID: P444700

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

Reference Method: SM 2320 B-2011
Batch ID: P444980

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

Reference Method: SM 2540 C-2015
Batch ID: P445283

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P445050

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P445378

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P444967

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: P444678

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444682

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445116

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445118

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444728

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444729

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: P445315

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445304

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444855

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P444700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.5		P	30 - 96.0
Alpha-BHC	85.6		P	70 - 109
Alpha-Chlordane	72.9		P	45 - 107
Beta-BHC	102		P	64 - 138
Beta-Cyfluthrin	62.7		P	17 - 141
Bifenthrin	46.4		P	10 - 113
Chlorothalonil	74.9		P	26 - 180
Cis-Nonachlor	60.1		P	37 - 102
Cypermethrin	72.0		P	20 - 133
Dacthal	91.4		P	69 - 114
DDD-p,p'	67.1		P	42 - 105
DDE-p,p'	64.0		P	42 - 106
DDT-p,p'	61.7		P	42 - 107
Delta-BHC	100		P	67 - 144
Deltamethrin	78.6		P	15 - 149
Dichlobenil	73.6		P	46 - 117
Dicofol	66.9		P	34 - 114
Dieldrin	67.5		P	50 - 108
Endosulfan I	76.3		P	55 - 104
Endosulfan II	70.2		P	51 - 111
Endosulfan Sulfate	74.7		P	56 - 121
Endrin	70.0		P	10 - 106
Endrin Aldehyde	66.3		P	34 - 114
Endrin Ketone	82.6		P	63 - 177
Esfenvalerate	64.1		P	29 - 143
Ethalfuralin	71.5		P	46 - 96.0
Fenpropathrin	61.5		P	28 - 115
Gamma-BHC	97.8		P	65 - 121
Gamma-Chlordane	70.7		P	39 - 103
Heptachlor	62.6		P	39 - 94.0
Heptachlor Epoxide	81.3		P	54 - 104
Hexachlorobenzene	65.4		P	36 - 100
Kepone	198		P	10 - 225
Lambda-Cyhalothrin	56.2		P	10 - 135
Methoprene	48.4		P	10 - 109
Methoxychlor	76.2		P	52 - 112
MGK-264	86.8		P	44 - 117
Mirex	47.5		P	20 - 90.0
Oxychlordane	76.6		P	44 - 102
PCB-1016	73.3		P	45 - 107
PCB-1260	74.9		P	40 - 118
Permethrin	61.7		P	18 - 135
Phenothrin	47.5		P	10 - 102
Piperonyl Butoxide	100		P	28 - 156
Prallethrin	61.6		P	28 - 113
Tau-Fluvalinate	51.3		P	10 - 123
Tetramethrin	89.5		P	18 - 158
Trans-Nonachlor	67.9		P	39 - 104
Triclosan Methyl	66.2		P	54 - 108
Trifluralin	66.8		P	46 - 97.0

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P444700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	69.8		P	52 - 117
Toxaphene	64.7		P	44 - 125

Reference Method: SM 2320 B-2011
Batch ID: P444980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.8		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P445283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	98.8		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P445050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.8		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P445378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.4		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P444967

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445116

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484095	Chloride	101		P	90 - 110
2484185	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445118

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484095	Sulfate	99.8		P	90 - 110
2484185	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444728

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484107	Ammonia-N	96.6	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444729

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484192	Ammonia-N	97.6	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445315

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484192	Kjeldahl Nitrogen	104	97.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445304

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484043	NO2NO3-N	106	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444855

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484204	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P444700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484318	Aldrin	56.1	46.6	P/P	24 - 81.0
2484318	Alpha-BHC	89.2	81.1	P/P	65 - 110
2484318	Alpha-Chlordane	72.6	59.6	P/P	43 - 119
2484318	Beta-BHC	112	101	P/P	54 - 165
2484318	Beta-Cyfluthrin	64.2	84.7	P/P	27 - 165
2484318	Bifenthrin	56.0	71.5	P/P	17 - 117
2484318	Chlorothalonil	65.4	85.7	P/P	10 - 255
2484318	Cis-Nonachlor	55.7	44.4	P/P	34 - 98.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P444700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484318	Cypermethrin	74.0	81.4	P/P	25 - 143
2484318	Dacthal	95.3	75.9	P/P	55 - 139
2484318	DDD-p,p'	65.2	60.4	P/P	30 - 109
2484318	DDE-p,p'	63.3	47.1	P/P	35 - 106
2484318	DDT-p,p'	60.4	53.7	P/P	41 - 101
2484318	Delta-BHC	116	106	P/P	58 - 165
2484318	Deltamethrin	86.7	108	P/P	10 - 194
2484318	Dichlobenil	41.6	31.8	P/P	22 - 114
2484318	Dicofol	60.1	61.4	P/P	17 - 133
2484318	Dieldrin	65.4	54.8	P/P	45 - 129
2484318	Endosulfan I	77.1	63.0	P/P	49 - 104
2484318	Endosulfan II	64.4	48.1	P/P	37 - 117
2484318	Endosulfan Sulfate	68.3	52.5	P/P	38 - 128
2484318	Endrin	67.5	54.1	P/P	35 - 116
2484318	Endrin Aldehyde	46.5	40.7	P/P	19 - 108
2484318	Endrin Ketone	72.9	65.3	P/P	44 - 134
2484318	Esfenvalerate	69.2	83.9	P/P	27 - 176
2484318	Ethalfuralin	67.6	62.3	P/P	49 - 100
2484318	Fenpropathrin	64.4	74.4	P/P	34 - 117
2484318	Gamma-BHC	106	93.5	P/P	59 - 129
2484318	Gamma-Chlordane	71.3	58.5	P/P	33 - 107
2484318	Heptachlor	64.2	55.9	P/P	37 - 94.0
2484318	Heptachlor Epoxide	80.1	70.4	P/P	38 - 118
2484318	Hexachlorobenzene	67.1	64.4	P/P	35 - 97.0
2484318	Kepone	79.8	75.4	P/P	10 - 221
2484318	Lambda-Cyhalothrin	63.1	62.0	P/P	23 - 190
2484318	Methoprene	55.7	45.0	P/P	21 - 109
2484318	Methoxychlor	72.6	69.6	P/P	46 - 118
2484318	MGK-264	95.7	75.9	P/P	39 - 122
2484318	Mirex	48.9	43.6	P/P	25 - 90.0
2484318	Oxychlordane	84.1	80.9	P/P	42 - 100
2484318	Permethrin	66.2	106	P/P	33 - 181
2484318	Phenothrin	53.5	80.4	P/P	12 - 125
2484318	Piperonyl Butoxide	90.7	88.2	P/P	10 - 178
2484318	Prallethrin	42.6	37.0	P/P	24 - 122
2484318	Tau-Fluvalinate	58.0	86.1	P/P	13 - 151
2484318	Tetramethrin	74.5	68.1	P/P	16 - 172
2484318	Trans-Nonachlor	69.8	55.0	P/P	39 - 100
2484318	Triclosan Methyl	66.6	51.4	P/P	43 - 110
2484318	Trifluralin	67.4	59.0	P/P	45 - 94.0
2484757	PCB-1016	71.7	66.8	P/P	45 - 107
2484757	PCB-1260	73.4	74.0	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P444700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484757	Chlordane	70.1	81.1	P/P	43 - 123
2484757	Toxaphene	65.0	76.6	P/P	27 - 156

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P445378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483771	Fluoride	105	106	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P444967

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484122	Organic Carbon	100	98.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P444678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484119	Color (true)	1.15	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484152	Turbidity	4.02	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484095	Chloride	1.71	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445118

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484095	Sulfate	1.22	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484107	Ammonia-N	1.05	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484192	Ammonia-N	0.443	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445315

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484192	Kjeldahl Nitrogen	3.96	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484043	NO2NO3-N	0.468	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444855

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484204	Total-P	0.830	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P444700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484318	Aldrin	18.5	Spike	P	0 - 41
2484318	Alpha-BHC	9.49	Spike	P	0 - 25
2484318	Alpha-Chlordane	19.6	Spike	P	0 - 32
2484318	Beta-BHC	10.9	Spike	P	0 - 33
2484318	Beta-Cyfluthrin	27.6	Spike	P	0 - 43
2484318	Bifenthrin	24.5	Spike	P	0 - 52
2484318	Chlorothalonil	26.9	Spike	P	0 - 82
2484318	Cis-Nonachlor	22.5	Spike	P	0 - 33
2484318	Cypermethrin	9.57	Spike	P	0 - 51
2484318	Dacthal	22.8	Spike	P	0 - 27
2484318	DDD-p,p'	7.69	Spike	P	0 - 39
2484318	DDE-p,p'	29.3	Spike	P	0 - 31
2484318	DDT-p,p'	11.8	Spike	P	0 - 29
2484318	Delta-BHC	9.29	Spike	P	0 - 35
2484318	Deltamethrin	21.5	Spike	P	0 - 100
2484318	Dichlobenil	26.6	Spike	P	0 - 40
2484318	Dicofol	2.23	Spike	P	0 - 37
2484318	Dieldrin	17.6	Spike	P	0 - 27
2484318	Endosulfan I	20.1	Spike	P	0 - 23
2484318	Endosulfan II	29.0	Spike	P	0 - 34
2484318	Endosulfan Sulfate	26.2	Spike	P	0 - 36
2484318	Endrin	22.0	Spike	P	0 - 45
2484318	Endrin Aldehyde	13.3	Spike	P	0 - 76
2484318	Endrin Ketone	11.1	Spike	P	0 - 43
2484318	Esfenvalerate	19.1	Spike	P	0 - 51
2484318	Ethalfuralin	8.15	Spike	P	0 - 22
2484318	Fenpropathrin	14.4	Spike	P	0 - 49
2484318	Gamma-BHC	12.1	Spike	P	0 - 28
2484318	Gamma-Chlordane	19.7	Spike	P	0 - 40
2484318	Heptachlor	13.7	Spike	P	0 - 29
2484318	Heptachlor Epoxide	13.0	Spike	P	0 - 33
2484318	Hexachlorobenzene	4.06	Spike	P	0 - 36
2484318	Kepone	5.63	Spike	P	0 - 85
2484318	Lambda-Cyhalothrin	1.76	Spike	P	0 - 55
2484318	Methoprene	21.3	Spike	P	0 - 53
2484318	Methoxychlor	4.16	Spike	P	0 - 50
2484318	MGK-264	23.0	Spike	P	0 - 43
2484318	Mirex	11.5	Spike	P	0 - 40
2484318	Oxychlordane	3.91	Spike	P	0 - 31
2484318	Permethrin	46.0	Spike	P	0 - 50
2484318	Phenothrin	40.1	Spike	P	0 - 58
2484318	Piperonyl Butoxide	2.79	Spike	P	0 - 100
2484318	Prallethrin	13.9	Spike	P	0 - 39
2484318	Tau-Fluvalinate	39.0	Spike	P	0 - 54

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P444700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484318	Tetramethrin	8.98	Spike	P	0 - 51
2484318	Trans-Nonachlor	23.7	Spike	P	0 - 39
2484318	Triclosan Methyl	25.8	Spike	P	0 - 31
2484318	Trifluralin	13.3	Spike	P	0 - 22
2484757	PCB-1016	6.99	Spike	P	0 - 25
2484757	PCB-1260	0.747	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P444700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484757	Chlordane	14.5	Spike	P	0 - 28
2484757	Toxaphene	16.5	Spike	P	0 - 27

Reference Method: SM 2320 B-2011
Batch ID: P444980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484185	Total Alkalinity	0.339	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P445283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484095	TDS	1.88	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P445050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484095	TSS	7.14	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P445378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483771	Fluoride	1.04	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P444967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484122	Organic Carbon	1.17	Spike	P	0 - 15

Quality Assurance Report Precision

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2484196
Field Sample ID: 20020052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	66.9	P	37 - 129
EPA 8270E	Decachlorobiphenyl	64.9	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	39.9	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	49.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	51.0	P	23 - 110
EPA 8276	PCNB	71.3	P	51 - 130

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A125475
Included Lab Sample IDs: 2484185

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A125476
Included Lab Sample IDs: 2484185, 2484187, 2484188

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A125491
Included Lab Sample IDs: 2484186, 2484191, 2484192

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.5	97.2	P/P	90 - 110
Ammonia-N	96.9	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125583
Included Lab Sample IDs: 2484186, 2484191, 2484192

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

Reference Method: SM 5310 B-2014
Run ID: A125586
Included Lab Sample IDs: 2484186, 2484191, 2484192

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	116	96.5	P/P	70 - 130

Reference Method: SM 2320 B-2011
Run ID: A125588
Included Lab Sample IDs: 2484185, 2484187, 2484188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	96.6	P/P	90 - 110
Total Alkalinity	95.9	100	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A125632
Included Lab Sample IDs: 2484196

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	94.6		P	80 - 120
Beta-BHC	92.0		P	80 - 120
Beta-Cyfluthrin	103		P	80 - 120
Bifenthrin	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A125632
Included Lab Sample IDs: 2484196

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorothalonil	93.0		P	80 - 120
Cis-Nonachlor	102		P	80 - 120
Cypermethrin	97.4		P	80 - 120
Dacthal	94.3		P	80 - 120
DDE-p,p'	99.8		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	102		P	80 - 120
Dichlobenil	91.9		P	80 - 120
Dicofol	96.0		P	80 - 120
Dieldrin	99.6		P	80 - 120
Endosulfan I	94.0		P	80 - 120
Endosulfan II	98.0		P	80 - 120
Endosulfan Sulfate	98.8		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	81.7		P	80 - 120
Endrin Ketone	95.3		P	80 - 120
Esfenvalerate	94.5		P	80 - 120
Ethalfuralin	102		P	80 - 120
Fenpropathrin	99.5		P	80 - 120
Gamma-BHC	108		P	80 - 120
Gamma-Chlordane	93.0		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	96.7		P	80 - 120
Hexachlorobenzene	103		P	80 - 120
Kepone	80.4		P	80 - 120
Lambda-Cyhalothrin	95.4		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	99.1		P	80 - 120
MGK-264	91.4		P	80 - 120
Mirex	100		P	80 - 120
Oxychlordane	100		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	104		P	80 - 120
Piperonyl Butoxide	105		P	80 - 120
Prallethrin	96.2		P	80 - 120
Tau-Fluvalinate	105		P	80 - 120
Tetramethrin	93.4		P	80 - 120
Trans-Nonachlor	93.6		P	80 - 120
Triclosan Methyl	99.0		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125635
Included Lab Sample IDs: 2484196

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDD-p,p'	103		P	80 - 120
DDT-p,p'	94.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A125640

Included Lab Sample IDs: 2484185, 2484187, 2484188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	99.0	P/P	90 - 110
Chloride	99.0	99.1	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110
Sulfate	103	101	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A125650

Included Lab Sample IDs: 2484196

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.8		P	80 - 120
Toxaphene	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A125679

Included Lab Sample IDs: 2484196

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	101		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A125706

Included Lab Sample IDs: 2484186, 2484191, 2484192

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	103	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A125734

Included Lab Sample IDs: 2484185, 2484187, 2484188

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A125763

Included Lab Sample IDs: 2484186, 2484191, 2484192

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

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	101			1.15	
EPA 180.1 Rev. 2.0	Turbidity	102			4.02	
EPA 300.0 Rev. 2.1	Chloride	100	101	101	1.71	
	Sulfate	102	99.8	101	1.22	
EPA 350.1 Rev. 2.0	Ammonia-N	93.6	96.6	97.8		1.05
	Ammonia-N	94.4	97.6	98.4		0.443
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	104	97.6		3.96
EPA 353.2 Rev. 2.0	NO2NO3-N	104	106	107		0.468
EPA 365.1 Rev. 2.0	Total-P	101	104	105		0.830
EPA 8270E	Aldrin	51.5	56.1	46.6		18.5
	Alpha-BHC	85.6	89.2	81.1		9.49
	Alpha-Chlordane	72.9	72.6	59.6		19.6
	Beta-BHC	102	112	101		10.9
	Beta-Cyfluthrin	62.7	64.2	84.7		27.6
	Bifenthrin	46.4	56.0	71.5		24.5
	Chlorothalonil	74.9	65.4	85.7		26.9
	Cis-Nonachlor	60.1	55.7	44.4		22.5
	Cypermethrin	72.0	81.4	74.0		9.57
	Dacthal	91.4	75.9	95.3		22.8
	DDD-p,p'	67.1	65.2	60.4		7.69
	DDE-p,p'	64.0	47.1	63.3		29.3
	DDT-p,p'	61.7	60.4	53.7		11.8
	Delta-BHC	100	106	116		9.29
	Deltamethrin	78.6	108	86.7		21.5
	Dichlobenil	73.6	31.8	41.6		26.6
	Dicofol	66.9	61.4	60.1		2.23
	Dieldrin	67.5	54.8	65.4		17.6
	Endosulfan I	76.3	63.0	77.1		20.1
	Endosulfan II	70.2	48.1	64.4		29.0
	Endosulfan Sulfate	74.7	52.5	68.3		26.2
	Endrin	70.0	54.1	67.5		22.0
	Endrin Aldehyde	66.3	40.7	46.5		13.3
	Endrin Ketone	82.6	65.3	72.9		11.1
	Esfenvalerate	64.1	83.9	69.2		19.1
	Ethalfuralin	71.5	62.3	67.6		8.15
	Fenpropathrin	61.5	74.4	64.4		14.4
	Gamma-BHC	97.8	93.5	106		12.1
	Gamma-Chlordane	70.7	58.5	71.3		19.7
	Heptachlor	62.6	55.9	64.2		13.7
	Heptachlor Epoxide	81.3	70.4	80.1		13.0
	Hexachlorobenzene	65.4	64.4	67.1		4.06
	Kepone	198	75.4	79.8		5.63
	Lambda-Cyhalothrin	56.2	62.0	63.1		1.76
	Methoprene	48.4	45.0	55.7		21.3
	Methoxychlor	76.2	69.6	72.6		4.16
	MGK-264	86.8	75.9	95.7		23.0
	Mirex	47.5	43.6	48.9		11.5
	Oxychlordane	76.6	80.9	84.1		3.91
	PCB-1016	73.3	71.7	66.8		6.99
	PCB-1260	74.9	73.4	74.0		0.747
	Permethrin	61.7	106	66.2		46.0
	Phenothrin	47.5	80.4	53.5		40.1
	Piperonyl Butoxide	100	88.2	90.7		2.79
	Prallethrin	61.6	37.0	42.6		13.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8270E	Tau-Fluvalinate	51.3	86.1	58.0		39.0
	Tetramethrin	89.5	68.1	74.5		8.98
	Trans-Nonachlor	67.9	55.0	69.8		23.7
	Triclosan Methyl	66.2	51.4	66.6		25.8
	Trifluralin	66.8	59.0	67.4		13.3
EPA 8276	Chlordane	69.8	70.1	81.1		14.5
	Toxaphene	64.7	65.0	76.6		16.5
SM 2320 B-2011	Total Alkalinity	99.8			0.339	
SM 2540 C-2015	TDS	98.8			1.88	
SM 2540 D-2015	TSS	96.8			7.14	
SM 4500-F- C-2011	Fluoride	98.4	105	106		1.04
SM 5310 B-2014	Organic Carbon	98.7	100	98.3		1.17

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2484185
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2484185, 2484187, 2484188
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2484185, 2484187, 2484188
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2484185, 2484187, 2484188
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2484186, 2484191, 2484192
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2484186, 2484191, 2484192
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2484186, 2484191, 2484192
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2484186, 2484191, 2484192
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2484196
EPA 8270E	PCBs in water matrices by GC/MS/MS	2484196
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2484196
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2484185, 2484187, 2484188
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2484185, 2484187, 2484188
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2484185, 2484187, 2484188
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2484185, 2484187, 2484188
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2484186, 2484191, 2484192

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	04/23/2024			04/23/2024 15:14	Jessica K Wilks	2484185
EPA 180.1 Rev. 2.0	04/23/2024			04/23/2024 15:18	Khloe J Berg	2484185
	04/23/2024			04/23/2024 15:19	Khloe J Berg	2484187
	04/23/2024			04/23/2024 15:21	Khloe J Berg	2484188
EPA 300.0 Rev. 2.1	04/23/2024			04/29/2024 20:57	James L Waggeberby	2484185
	04/23/2024			04/30/2024 00:29	James L Waggeberby	2484187
	04/23/2024			04/30/2024 00:44	James L Waggeberby	2484188
EPA 350.1 Rev. 2.0	04/23/2024			04/24/2024 13:07	Khloe J Berg	2484186
	04/23/2024			04/24/2024 13:08	Khloe J Berg	2484191
	04/23/2024			04/24/2024 13:20	Khloe J Berg	2484192
EPA 351.2 Rev. 2.0	04/23/2024	05/07/2024 12:15	Robyn Blevins	05/08/2024 12:42	Samantha L Bates	2484186
	04/23/2024	05/07/2024 12:15	Robyn Blevins	05/08/2024 12:44	Samantha L Bates	2484191
	04/23/2024	05/07/2024 12:15	Robyn Blevins	05/08/2024 12:46	Samantha L Bates	2484192
EPA 353.2 Rev. 2.0	04/23/2024			05/06/2024 16:25	Fadila Guebre	2484186
	04/23/2024			05/06/2024 16:26	Fadila Guebre	2484191
	04/23/2024			05/06/2024 16:27	Fadila Guebre	2484192
EPA 365.1 Rev. 2.0	04/23/2024	04/26/2024 13:02	Adam P Silver	04/29/2024 15:57	James L Waggeberby	2484186
	04/23/2024	04/26/2024 13:02	Adam P Silver	04/29/2024 16:00	James L Waggeberby	2484191
	04/23/2024	04/26/2024 13:02	Adam P Silver	04/29/2024 16:01	James L Waggeberby	2484192
EPA 8270E	04/23/2024	04/25/2024 08:00	Fe-Val Siddell	04/27/2024 02:59	Lipi Saha	2484196
	04/23/2024	04/25/2024 08:00	Fe-Val Siddell	04/27/2024 04:38	Kenedi Mills	2484196
	04/23/2024	04/25/2024 08:00	Fe-Val Siddell	04/30/2024 21:19	Kenedi Mills	2484196
EPA 8276	04/23/2024	04/25/2024 08:00	Fe-Val Siddell	04/27/2024 11:51	Arthur Maknenko	2484196
SM 2320 B-2011	04/23/2024			04/29/2024 23:02	Adam P Silver	2484185
	04/23/2024			04/30/2024 00:28	Adam P Silver	2484187
	04/23/2024			04/30/2024 00:39	Adam P Silver	2484188
SM 2540 C-2015	04/23/2024			04/26/2024 16:04	Yijie Li	2484185, 2484187, 2484188
SM 2540 D-2015	04/23/2024			04/26/2024 16:04	Yijie Li	2484185, 2484187, 2484188
SM 4500-F- C-2011	04/23/2024			05/07/2024 22:24	Dale L. Simmons	2484185
	04/23/2024			05/07/2024 22:30	Dale L. Simmons	2484187
	04/23/2024			05/07/2024 22:35	Dale L. Simmons	2484188
SM 5310 B-2014	04/23/2024			04/29/2024 20:45	Khloe J Berg	2484186
	04/23/2024			04/29/2024 21:00	Khloe J Berg	2484191
	04/23/2024			04/29/2024 21:16	Khloe J Berg	2484192