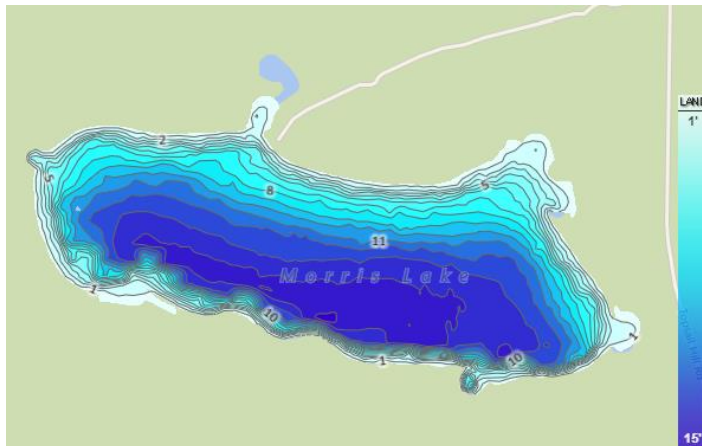


Morris Lake, Walton County



Lake Details

Outfall: present

Watershed area: 87 hectares

Lake surface area: 35 hectares

Average depth: 2.80 meters

Water Chemistry Data - 2017

Summary statistics include mean, maximum (Max), minimum (Min), median, and standard error (Std Error) calculated for total phosphorous (TP) (n = 12 samples), total nitrogen (TN) (n = 12 samples), total chlorophyll (CHL) (n = 12 samples), water transparency (Secchi Depth) (n = 12 samples), temperature (n = 12 samples), dissolved oxygen (n = 12 samples), pH (n = 12 samples), salinity (n = 12 samples), turbidity (n = 12 samples), color (n = 4 samples), and specific conductance (n = 4 samples) measurements.

2017 Summary Statistics

	Mean	Max	Min	Median	Std Error
TP (µg/L)	9	13	6	9	1
TN (µg/L)	425	530	336	427	16
CHL (µg/L)	3	4	2	3	0
Secchi Depth (m)	1	1	1	1	0
Temperature (C)	24	32	13	27	2
Dissolved Oxygen (mg/L)	7	10	5	7	0
pH	6	5	7	5	6
Salinity (ppt)	0	0	0	0	0
Turbidity (NTU)	2	9	0	1	1
Color (Pt-co Units)	65	76	56	65	4
Specific Conductance (µS/cm)	95	124	83	90	9

Water Chemistry Data - 2002 through 2017

Summary statistics include mean, maximum (Max), minimum (Min), median, and standard error (Std Error) summary statistics calculated on an annual basis using monthly data for total phosphorous (TP), total nitrogen (TN), total chlorophyll (CHL), water transparency (Secchi Depth), temperature, dissolved oxygen, pH, salinity, turbidity, color, and specific conductance. Summary statistics represent Long-Term analyses among annual means from 2002 through 2017.

Long-Term Summary Statistics

	Mean	Max	Min	Median	Std Error
TP (µg/L)	8	11	4	9	0
TN (µg/L)	533	702	290	539	27
CHL (µg/L)	2	5	1	2	0
Secchi Depth (m)	1	2	1	1	0
Temperature (C)	23	26	20	22	0
Dissolved Oxygen (mg/L)	7	8	6	7	0
pH	6	5	6	6	6
Salinity (ppt)	0	3	0	0	0
Turbidity (NTU)	2	8	1	1	1
Color (Pt-co Units)	72	181	4	94	15
Specific Conductance (µS/cm)	310	3530	69	241	369

Long-Term Trophic State Variable Trend Analyses

Monthly total phosphorous ($\mu\text{g/L}$), total nitrogen ($\mu\text{g/L}$), total chlorophyll ($\mu\text{g/L}$) and water transparency (m) from 2002 through 2017 for Morris Lake. These data show the intra-annual variance with trend line and associated 95% confidence level.

Kendall-Tau trend analysis results are shown for total phosphorus, total nitrogen, total chlorophyll, and water transparency on the top-left of each plot. Not significant indicates there was no significant trend measured. Positive indicates a significant, increasing trend was found over time. Negative indicates a significant, decreasing trend among years.

