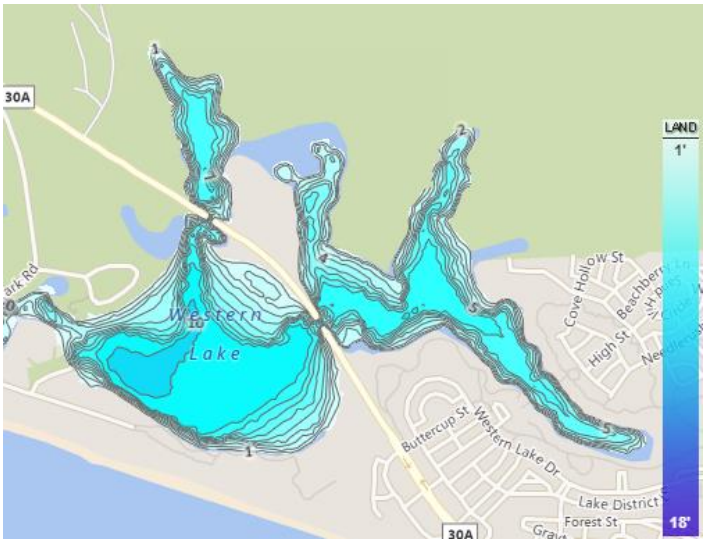
Western Northeast Lake, Walton County



Lake Details

Outfall: present through Western Lake

Watershed area: 275 hectares

Lake surface area: 41 hectares

Average depth: 1.94 meters

Note: refers to northeastern lobe of Western Lake

Water Chemistry Data - 2017

Summary statistics include mean, maximum (Max), minimum (Min), median, and standard error (Std Error) calculated for total phosphorous (TP) (n = 11 samples), total nitrogen (TN) (n = 11 samples), total chlorophyll (CHL) (n = 11 samples), water transparency (Secchi Depth) (n = 11 samples), temperature (n = 10 samples), dissolved oxygen (n = 10 samples), pH (n = 10 samples), salinity (n = 10 samples), turbidity (n = 10 samples), color (n = 5 samples), and specific conductance (n = 5 samples) measurements.

2017 Summary Statistics

	Mean	Max	Min	Median	Std Error
TP (µg/L)	10	15	6	10	1
TN (µg/L)	484	873	129	579	63
CHL (µg/L)	3	10	1	3	1
Secchi Depth (m)	1	1	0	1	0
Temperature (C)	23	32	15	26	2
Dissolved Oxygen (mg/L)	6	8	4	6	0
pH	7	7	7	7	8
Salinity (ppt)	4	13	1	4	1
Turbidity (NTU)	1	11	0	1	1
Color (Pt-co Units)	136	270	80	134	34
Specific Conductance (µS/cm)	6380	17000	1310	11000	3060

Water Chemistry Data - 1999 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 1999 through 2017.

Long-Term Summary Statistics

	Mean	Max	Min	Median	Std Error
TP (µg/L)	7	10	5	8	0
TN (µg/L)	314	469	170	303	21
CHL (µg/L)	2	3	1	2	0
Secchi Depth (m)	1	2	1	1	0
Temperature (C)	23	26	19	23	0
Dissolved Oxygen (mg/L)	7	7	6	7	0
pH	7	7	7	7	8
Salinity (ppt)	3	7	0	4	0
Turbidity (NTU)	2	5	1	2	0
Color (Pt-co Units)	81	143	33	82	13
Specific Conductance (µS/cm)	4030	10600	964	5270	815

Long-Term Trophic State Variable Trend Analyses

Monthly total phosphorous (µg/L), total nitrogen (µg/L), total chlorophyll (µg/L) and water transparency (m) from 1999 through 2017 for Western Northeast 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.