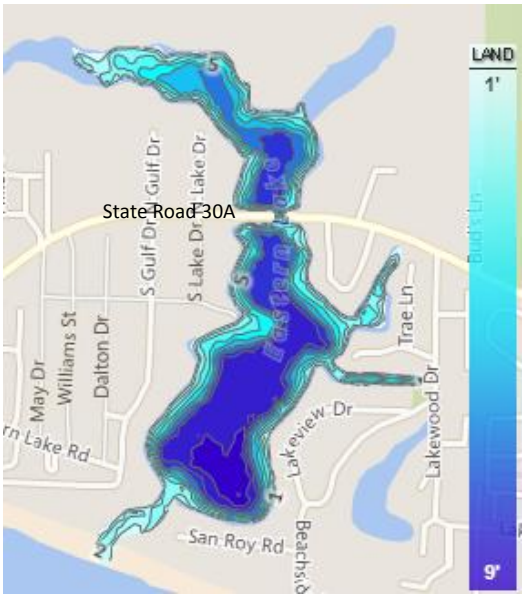
Eastern North, Walton County



Lake Details

Outfall: present through Eastern Lake

Watershed area: 154 hectares

Lake surface area: 26 hectares

Average depth: 1.77 meters

Note: Refers to northern lobe of Eastern 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 = 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)	15	22	10	14	1
TN (µg/L)	325	717	213	311	40
CHL (µg/L)	4	9	2	3	1
Secchi Depth (m)	1	2	0	1	0
Temperature (C)	24	34	14	26	2
Dissolved Oxygen (mg/L)	5	8	1	6	1
pH	7	7	8	7	8
Salinity (ppt)	15	25	10	15	1
Turbidity (NTU)	3	28	0	1	3
Color (Pt-co Units)	54	83	21	71	14
Specific Conductance (µS/cm)	22600	37000	17000	20500	4530

Water Chemistry Data - 2003 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 2003 through 2017.

Long-Term Summary Statistics

	Mean	Max	Min	Median	Std Error
TP (µg/L)	13	18	8	14	1
TN (µg/L)	341	475	273	334	15
CHL (µg/L)	4	8	2	5	0
Secchi Depth (m)	1	2	1	1	0
Temperature (C)	23	28	21	23	1
Dissolved Oxygen (mg/L)	6	8	4	6	0
pH	7	7	8	7	8
Salinity (ppt)	7	18	1	6	1
Turbidity (NTU)	3	12	1	2	1
Color (Pt-co Units)	65	118	32	62	9
Specific Conductance (µS/cm)	7960	22600	1950	8520	1960

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 2003 through 2017 for Eastern North 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 found from 2003 through 2017. Positive indicates a significant, increasing trend was found over time. Negative indicates a significant, decreasing trend among years.