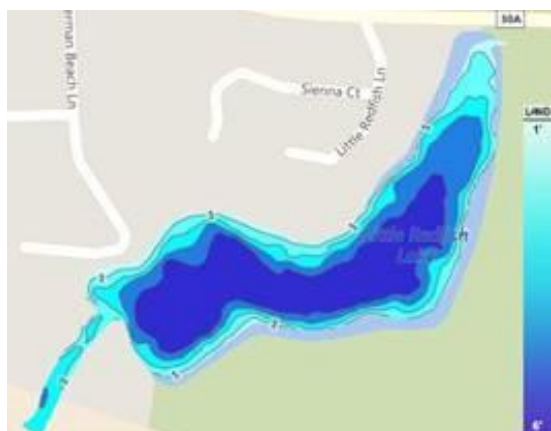


Little Redfish Lake, Walton County



Lake Details

Outfall: present

Watershed area: NA

Lake surface area: 5 hectares

Average depth: 0.88 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) | 16 | 50 | 9 | 15 | 3 |
| TN (µg/L) | 595 | 813 | 446 | 603 | 34 |
| CHL (µg/L) | 9 | 31 | 4 | 8 | 2 |
| Secchi Depth (m) | 1 | 1 | 0 | 1 | 0 |
| Temperature (C) | 27 | 33 | 19 | 29 | 2 |
| Dissolved Oxygen (mg/L) | 7 | 8 | 6 | 7 | 0 |
| pH | 7 | 6 | 7 | 7 | 7 |
| Salinity (ppt) | 3 | 12 | 2 | 3 | 1 |
| Turbidity (NTU) | 2 | 28 | 0 | 1 | 3 |
| Color (Pt-co Units) | 214 | 382 | 132 | 212 | 58 |
| Specific Conductance (µS/cm) | 5860 | 20000 | 3030 | 4430 | 4030 |

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) | 17 | 25 | 12 | 16 | 1 |
| TN (µg/L) | 560 | 676 | 445 | 561 | 17 |
| CHL (µg/L) | 7 | 16 | 1 | 8 | 1 |
| Secchi Depth (m) | 1 | 1 | 0 | 1 | 0 |
| Temperature (C) | 24 | 27 | 20 | 24 | 0 |
| Dissolved Oxygen (mg/L) | 6 | 8 | 4 | 7 | 0 |
| pH | 7 | 4 | 8 | 7 | 6 |
| Salinity (ppt) | 3 | 17 | 0 | 6 | 1 |
| Turbidity (NTU) | 3 | 9 | 1 | 3 | 1 |
| Color (Pt-co Units) | 114 | 216 | 62 | 112 | 16 |
| Specific Conductance (µS/cm) | 10500 | 21600 | 4120 | 14400 | 2000 |

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 Little Red Fish 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.

