



Otter Tail Coalition of Lake Associations

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## **Water Quality Analysis Reports 2019**

### ***North Lida 56-0747-01***





The 2019 analysis data for North Lida Lake has been consolidated into the 2019 Water Quality Analysis Report. Your Lake Organization, **Lake Lida Property Owners Association**, participates in the OTC COLA [Water Monitoring Program](#).

For 2019 the reports have been expanded to identify each lake individually and include separate data tables for each site.

To see where North Lida Lake is on an interactive map and for more information about the Lake, click [HERE](#).

Samples were taken for **Phosphorus**, **Chlorophyll-a** and water **Clarity** (Secchi) analysis. Learn about collecting water samples [HERE](#). The samples were analyzed by [RMB Laboratories](#) in Detroit Lakes, MN. Click [HERE](#) for a technical explanation of the analysis.

For the trend analysis for North Lida Lake **OTC COLA** compiled data for years from 2010. The results were averaged by site and year.

| Lake / Site                              | Year | Phosphorus Ave  | Chlorophyll a Ave  | Secchi Ft   | TSI Ave   |
|--|------|---|--|---|---|
| North Lida 56-0747-01 208                | 2010 | 23.4  | 7.2  | 11.0  | 47.0  |
|  | 2011 | 19.0  | 8.2  | 12.2  | 46.2  |
|  | 2012 | 19.2  | 4.8  | 14.1  | 43.6  |
|  | 2013 | 18.4  | 6.4  | 13.1  | 44.2  |
|  | 2014 | 16.8  | 5.8  | 13.2  | 43.8  |
|  | 2015 | 12.4  | 2.2  | 21.1  | 37.0  |
|  | 2016 | 13.0  | 2.6  | 24.5  | 37.0  |
|  | 2017 | 13.6  | 2.8  | 22.9  | 37.2  |
|  | 2018 | 19.0  | 5.6  | 14.8  | 43.4  |
|  | 2019 | 19.0  | 4.9  | 15.3  | 42.8  |
| <b>North Lida 56-0747-01 208 Average</b> |      | <b>17.4</b>   | <b>5.1</b>   | <b>16.2</b>   | <b>42.2</b>   |
|  |      |  |  |  |  |

The mini-graphs at the bottom of each test represent the trend line for the years included.

## Ecoregion Comparison

Another approach to evaluating health of lakes is test data compared to Ecoregions. An Ecoregion is a geographical area where the land use (agriculture, forest, prairie, etc.), underlying geology, potential native plant community, and soils are relatively similar. The lakes in Otter Tail County are in the Northern Central Hardwood Forest Ecoregion. Click [HERE](#) to learn more about Ecoregions.

Compare the **North Lida Lake Average** to the Northern Central Hardwood Forest Ecoregion ranges of averages shown here:

**Phosphorus: 23–50, Chlorophyll: 5–22, Secchi (ft): 5–10.5**

## What Is A Healthy Lake?

It is widely accepted that the amount of phosphorus in a lake often determines the ultimate disposition of health for a lake. The amount of phosphorus in a lake is the primary nutrient for proliferation of algae and aquatic plant life. Control of infusion to North Lida Lake of phosphorus from animal waste, human waste and fertilizers is the most probable objective to pursue to nurture health.

## Concerned About Phosphorus?

## What to do

- Investigate and control property owner septic system efficiency
- Identify and pursue adverse land run off from lake property owners, farms and feed lots
- Educate lake property owners on detrimental use of phosphate lawn fertilizers

## Who Can Help

### [OTC COLA](#)

- COLA sponsored water quality testing
- Monthly [NEWSLETTERS](#)     [SUBSCRIBE](#)
- OTC COLA [WEBSITE](#)
- Attend summer monthly meetings
- Participate in COLA events
- Network with fellow COLA members
- OTC COLA [BROCHURE](#)

### Minnesota Pollution Control Agency [MPCA](#)

- The MPCA provides technical and financial assistance and enforces environmental regulations in the State of Minnesota.

### East Otter Tail Soil & Water Conservation District [EOT SWCD](#)

- [Shore & Water](#)
  - [Funding assistance](#)

### West Otter Tail Soil & Water Conservation District [WOT SWCD](#)

### Otter Tail County [Land & Resource Management](#)

- The Department of Land and Resource Management is designed to enforce county and state ordinances / rules.

### [West Central Initiative](#)

- **Mission:** Serving to improve west central Minnesota through funding, programs and technical assistance.

**Minnesota Department of Natural Resources** [MN DNR](#)

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