

SOUTH CENTER LAKE TMDL SUMMARY

Impairment

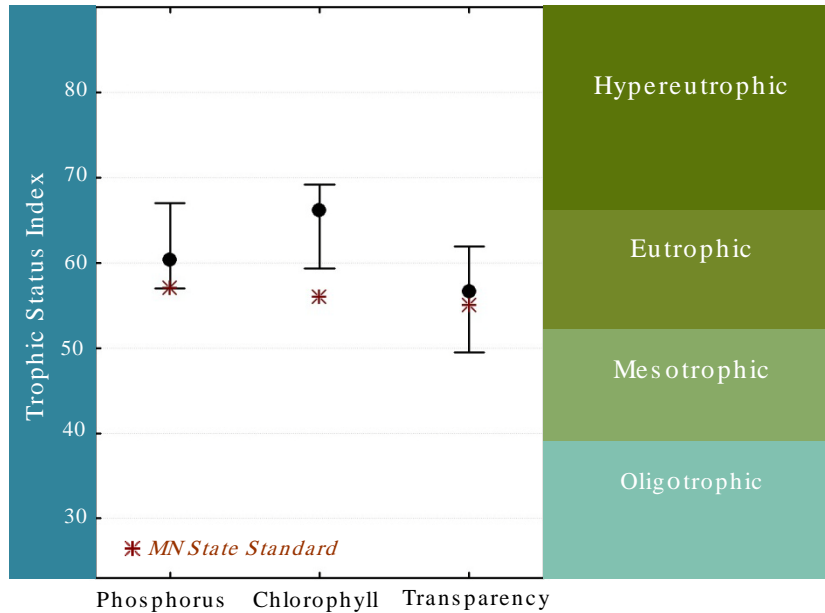
Aquatic recreation due to excess nutrients in the lake.

Water Quality Goal

A 26% reduction in phosphorus loads to the lake is needed to restore the aquatic recreation use of South Center Lake.

Observed Water Quality

Mean and Range of Annual Averages (2001-2009)



Water Quality Standard

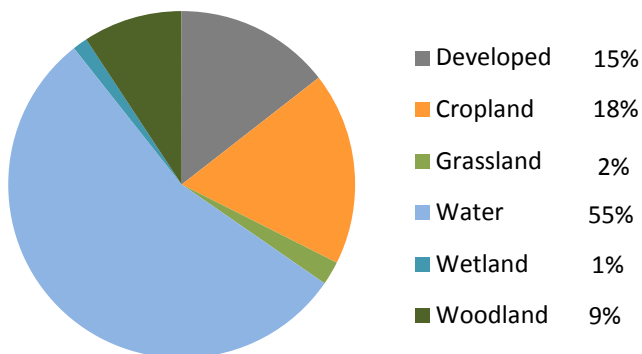
Secchi transparency – 1.4 m

Chlorophyll-*a* – 14 µg/L

Total phosphorus – 40 µg/L

Land Cover

South Center Lake



BASIC FACTS

DNR ID	13-0037-00
Lake Surface Area	889 acres
Littoral Area	63%
Lake Volume	11,269 ac-ft
Mean Depth	12.6 ft
Maximum Depth	109 feet
Drainage Area	7,533 acres
Watershed Area:	
Lake Area Ratio	8.5:1

Key Findings

- DNR/MPCA Sentinel Lake
- Eight feedlots exist within the contributing watershed area.
- Ten Imminent Threat to Public Health septic systems have been recently upgraded.
- Three other subwatersheds (including 2 impaired lakes) flow into South Center Lake.

Main Phosphorus Sources

- Urban runoff
- Rural runoff
- Septic systems

Fish & Plants Present

- Curly leaf pondweed (invasive)
- Eurasian watermilfoil (invasive)
- Black crappie
- Black, Brown, and Yellow bullhead
- Bowfin (dogfish)
- White sucker
- Bluegill
- Northern pike
- Common carp