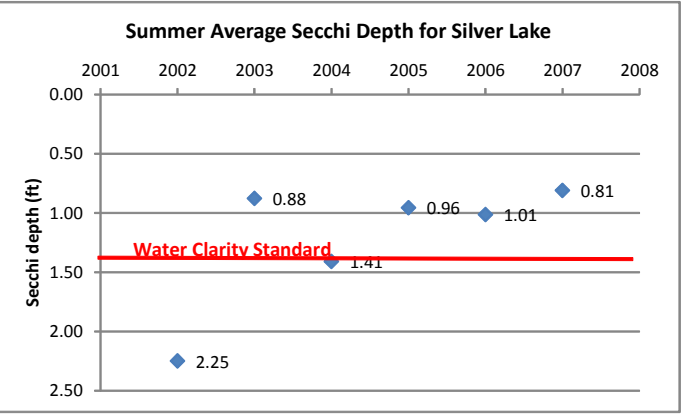
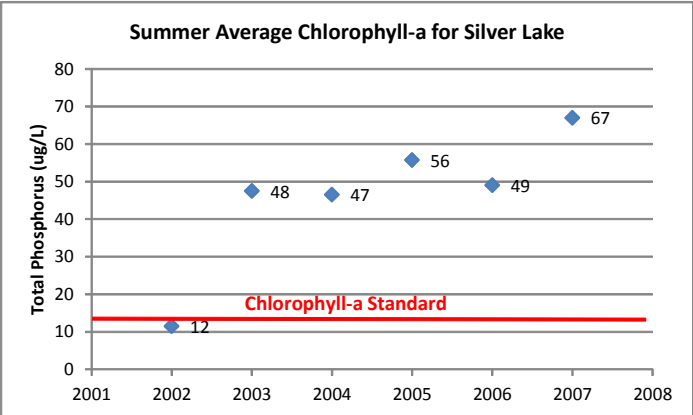
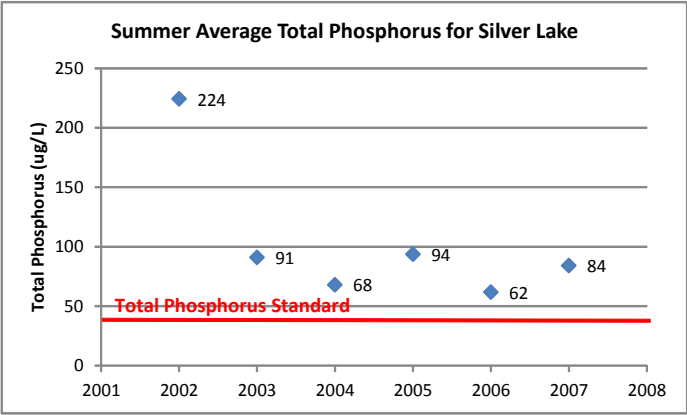
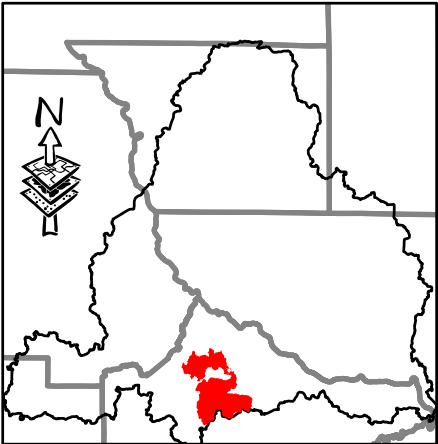


Silver Lake (86-0140)- DRAFT

Silver Lake Watershed



Project Location within MSC Watershed



Lake Data

Surface Area: 83 Acres
Maximum Depth: 42 feet
Littoral Area: 26 Acres
Contributing Watershed Area: 18,921 Acres

Classification: Deep Lake

Questions/Comments can be directed to:

Tiffany Determan
Sherburne SWCD
763-241-1170 x 3
tdeterman@sherburneswcd.org

or

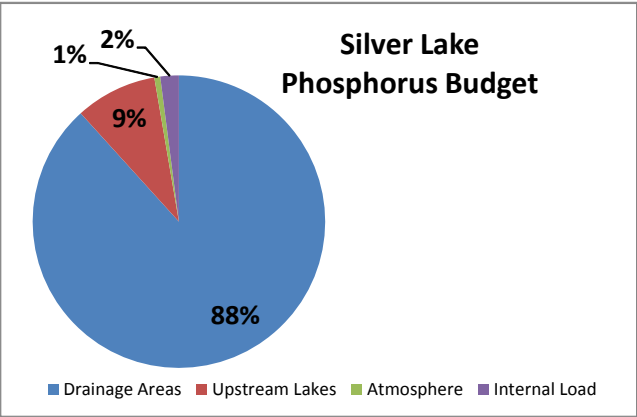
Joe Jacobs
Wright SWCD
763-682-1982 x 3
joe.jacobs@mn.nacdnet.net

Summary

- In-lake phosphorus exceeded the State standard during all years monitored; water clarity and chlorophyll-a exceeded standards with the exception of 2002.
- Silver Lake health is based off of a minimal dataset; thus, local knowledge and input are fundamental.
- Silver Creek flows through the lake and plays a large role in determining the water quality of Silver Lake.
- Water moving into the lake through the north via Sandy Creek is very low in nutrients.
- Internal recycling of nutrients may contribute to reduced water quality, particularly during low flow; however the drainage area seems to have the largest impact on water quality.
- Eurasian watermilfoil was confirmed present by the MN DNR in 2012; curly-leaf pondweed was identified to be present but rare.

Recommended Activities

- If numerical goals are to be met for Silver Lake, nutrient loads from the Silver Creek watershed must be greatly reduced.
- The excellent quality of water in Sandy Creek should be protected.
- Methods to manage exotic aquatic plant species and enhance native plant species should be employed.- **is there anything being done?**
- Ensure minimal water quality impacts of rural developments around the lake; for example, no untreated stormwater should be directed into the lake, the amount of impervious surfaces in developed areas should be kept to a minimum, natural buffers of vegetation should be maintained between lawns and the lakeshore.
- Monitoring flow and nutrients in both inlets will aid in identifying current nutrient levels as well as to establish a baseline for future conditions.
- Establishment of a regular In-lake monitoring program will aid in monitoring future monitor trends.



	% Reducion Required
Watershed (LA)	62%
Mink-Somers Lakes	19%
SSTS	100%
Atmosphere	0%
Groundwater	0%
Internal	50%