Minocqua-Kawaguesaga Lakes Protection Association Lake Watershed Water Quality Management Plan

I. Grants II. Land Use & Growth III. Pollutants IV. Existing BMPs V. Future BMPs VI. BMPs - General



June 7, 2005

PROJECTS

USGS STUDY – 2003 Funded in Part (60%) by the USGS and MKLPA (completed)

Evaluate water quality, determined increasing nutrient load

LAKE MANAGEMENT PLANNING -- PHASE 1 Funded in Part (75%) by WDNR and MKLPA (in process)

- Delineate water sheds local to the lakes
- Define sub watersheds within the local area watershed
- Compare existing and future planned land use
- Complete hydraulic quantity and water quality study for runoff water
- Evaluate existing runoff water Best Management Practices
- Determine size of Future BMP's in various watersheds
- Evaluate current and proposed ordinances for storm water erosion control, long term storm water management, and fertilizer controls

PROJECTS

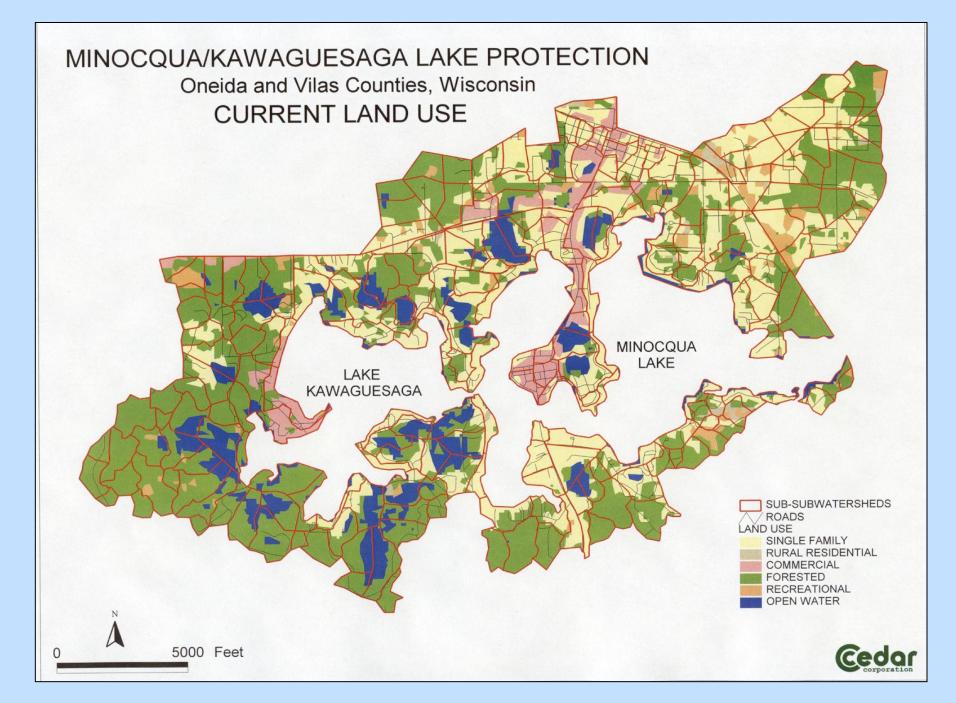
AQUATIC INVASIVE SPECIES -EARLY DETECTION AND RAPID RESPONSE GRANTS (in process) Funded in part by WDNR (50%), Town of Minocqua, and MKLPA Sprayed ~24 acres in Minocqua/Kawaguesaga this past month for Eurasian Water Milfoil LAKE MANAGEMENT PLANNING – PHASE 2 proposed (grant app in process) To be funded in part by the DNR, the USGS, and MKLPA USGS to conduct 2 year water quantity study of water entering and leaving Minocqua/Kawaguesaga Lakes Evaluate ground water contributions (quality and quantity) to the lakes Conduct a lake community survey to evaluate perspectives of residents and visitors to the lakes Compile a Lake Watershed Management Plan that incorporates all existing and past evaluations and presents recommendations for implementation of water quality improvement projects

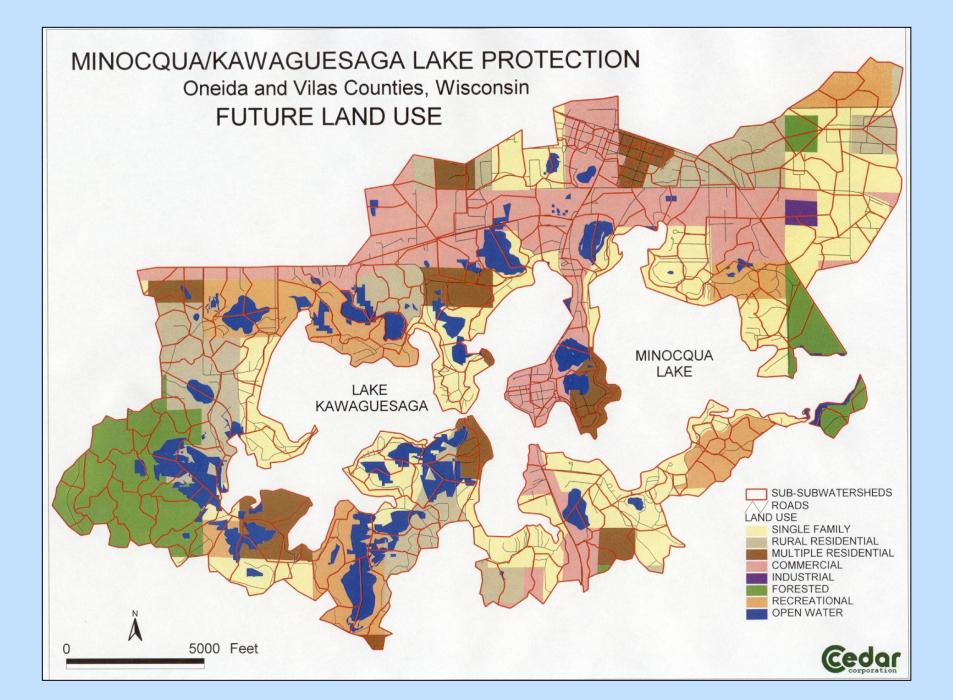
PROJECTS

AQUATIC PLANT MANAGEMENT PLAN (future 2005/2006 LMP) To be funded by WDNR (75%) and MKLPA

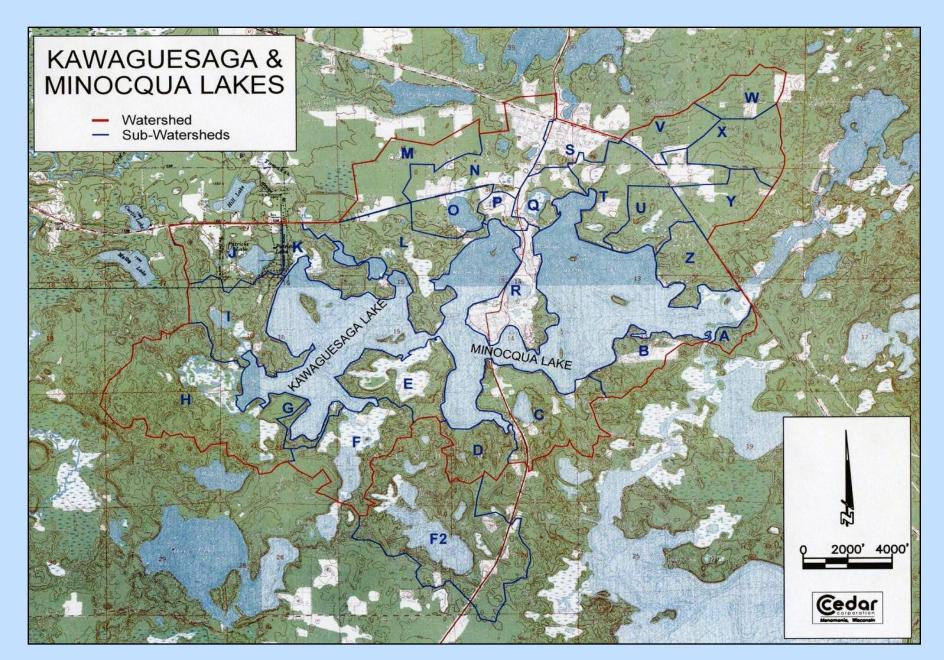
- Determine the species, location, and percentage of plants both native and invasive in Minocqua/Kawaguesaga Lakes
- Develop a control plan to manage the aquatic plants, particularly invasive species

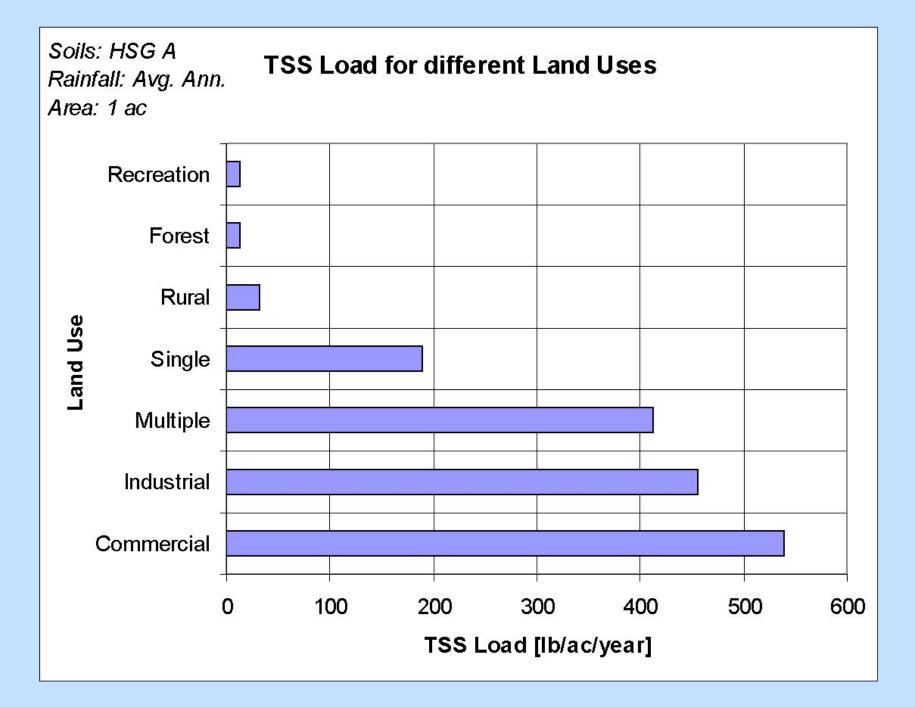
WATER QUALITY IMPLEMENTATION PROJECTS (future to be determined)
To be funded by WDNR (75%) MKLPA and others
Develop feasibility studies; design plans; prepare bidding documents and construction specifications; provide construction coordination and supervision.

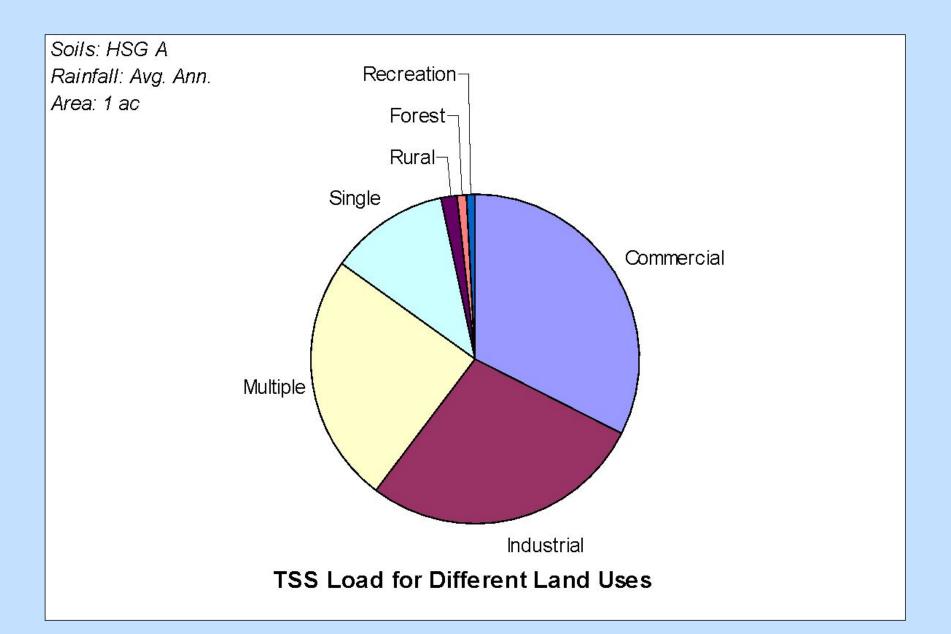


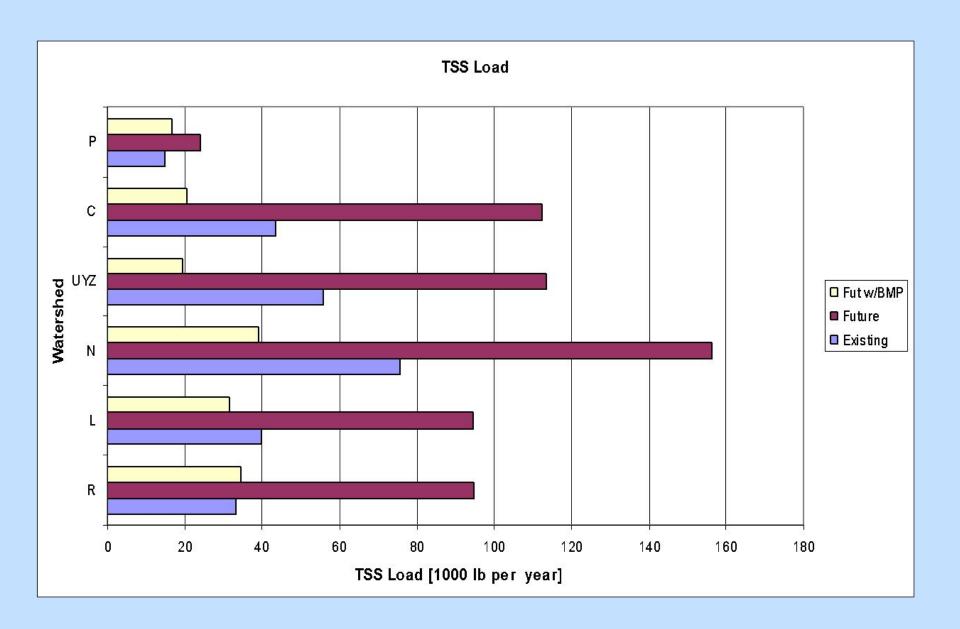


LOCAL LAKE WATERSHEDS

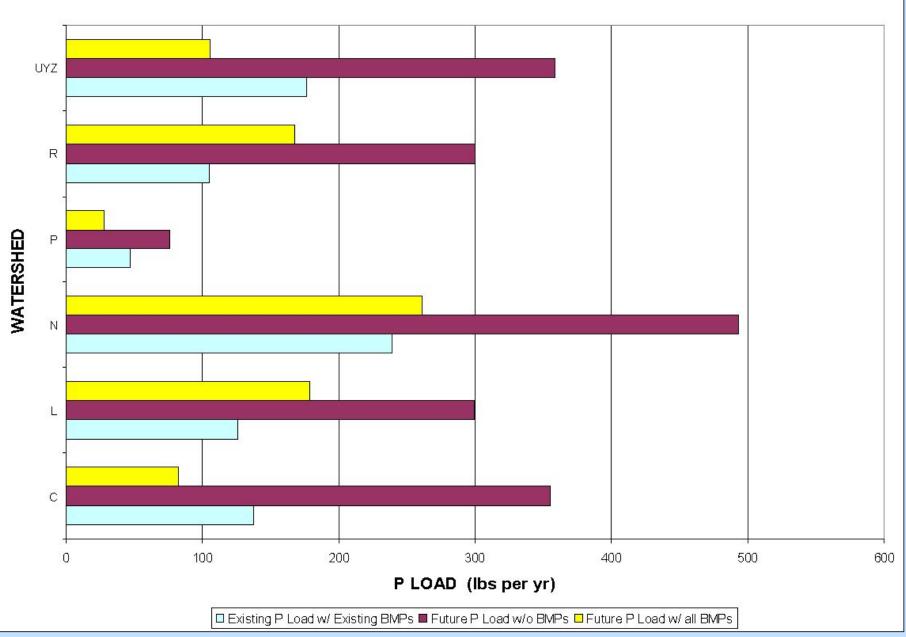


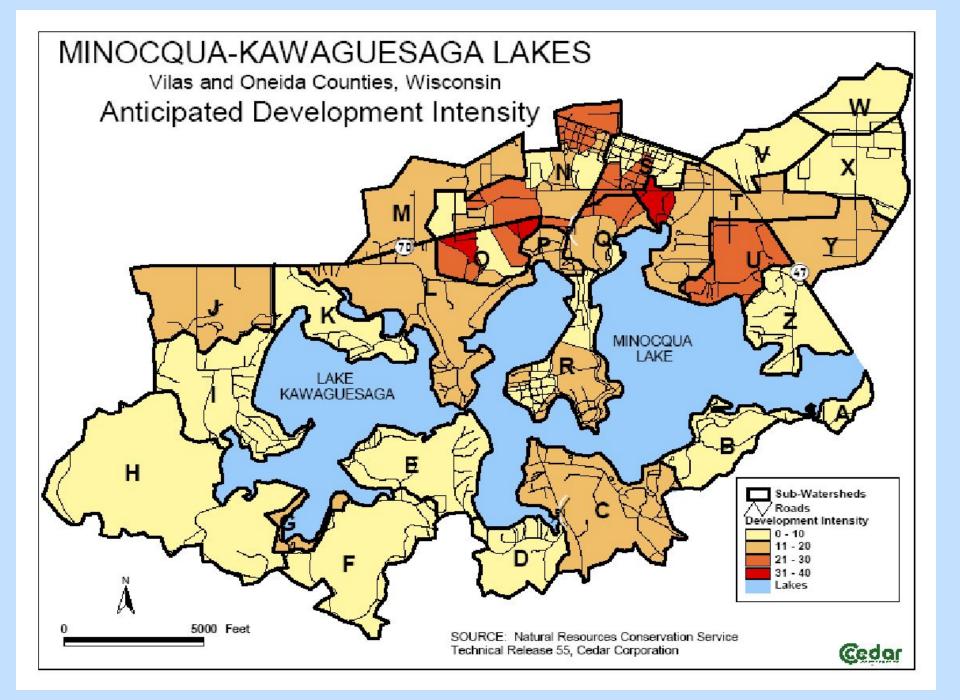


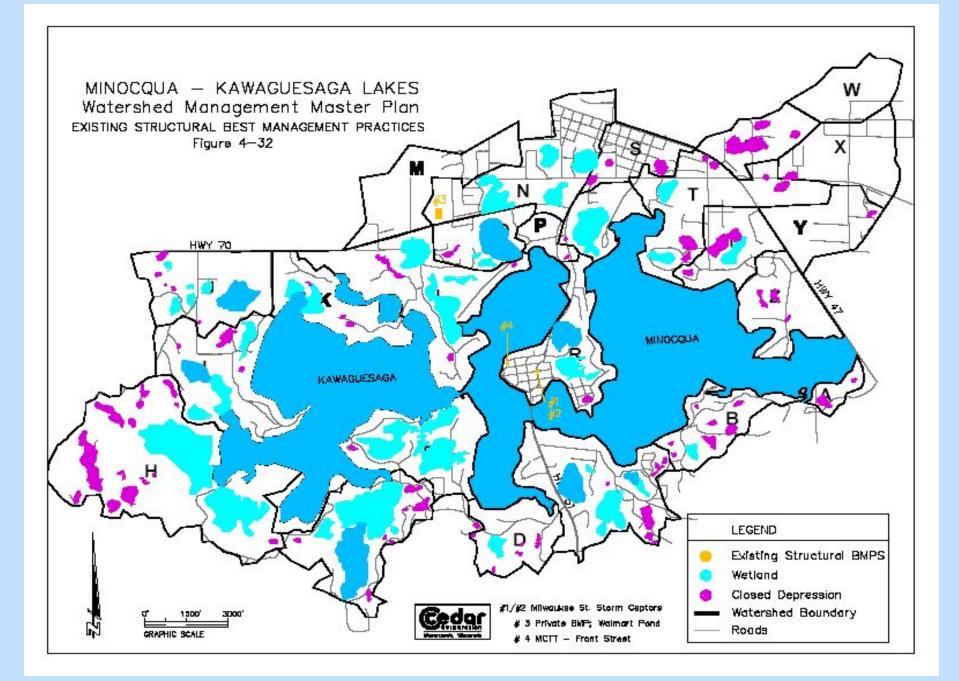


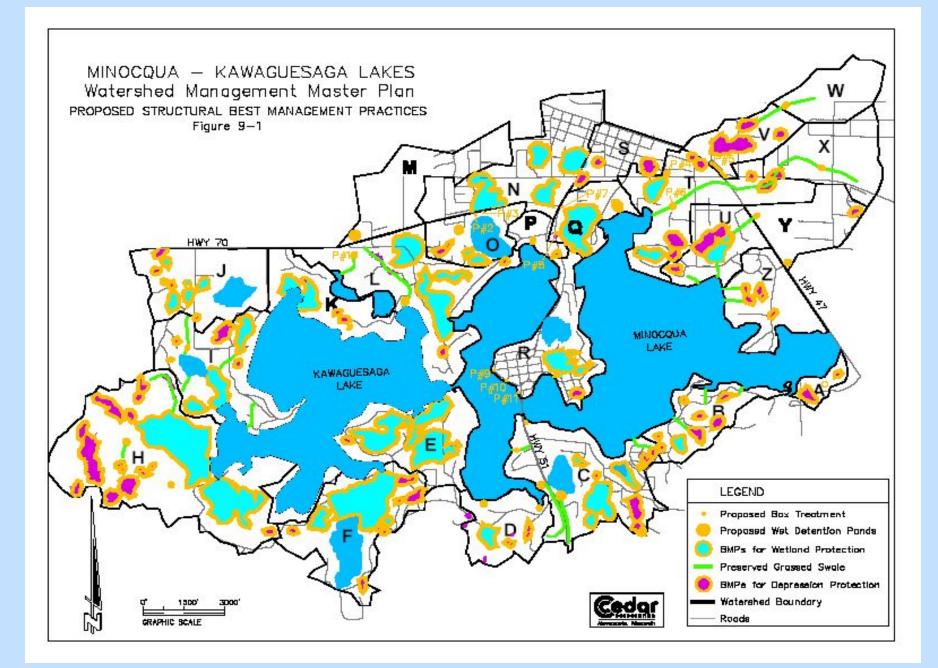












BEST MANAGEMENT PRACTICES

STRUCTURAL

- Wet detention sediment basins,
- Constructed wetlands,
- Infiltration basins,
- Infiltration trenches,
- Dry detention/retention basins,
- Storm sewer inlet sumps,
- Riprap,
- Gabions,
- Construction of grassed channels and drainage ways,
- Silt fence,
- Water quality pre-treatment box structure,
- Stone weeper berms,
- Straw bales and silt fence.

NON- STRUCTURAL

- Street sweeping,
- Catch basin control on winter streets,
- Leaf and lawn waste control,
- Fertilizer and pesticide application control,
- Hazardous waste and spill prevention program,
- Pet and farm animal waste control,
- Construction site erosion control regulations and enforcement,
- Storm water management planning education,
- Ordinances,
- Land use planning

ORDINANCE REVIEW

- On site Construction Erosion Control
- Post Construction Surface Water Runoff Management
- Fertilizer Control

Runoff Water Management and Sediment Erosion Control

NOT THIS...

BUT THIS!!





Fertilizer Control

NOT THIS...

BUT THIS!!

