

Best Management Plan for Sediments (BMPs)



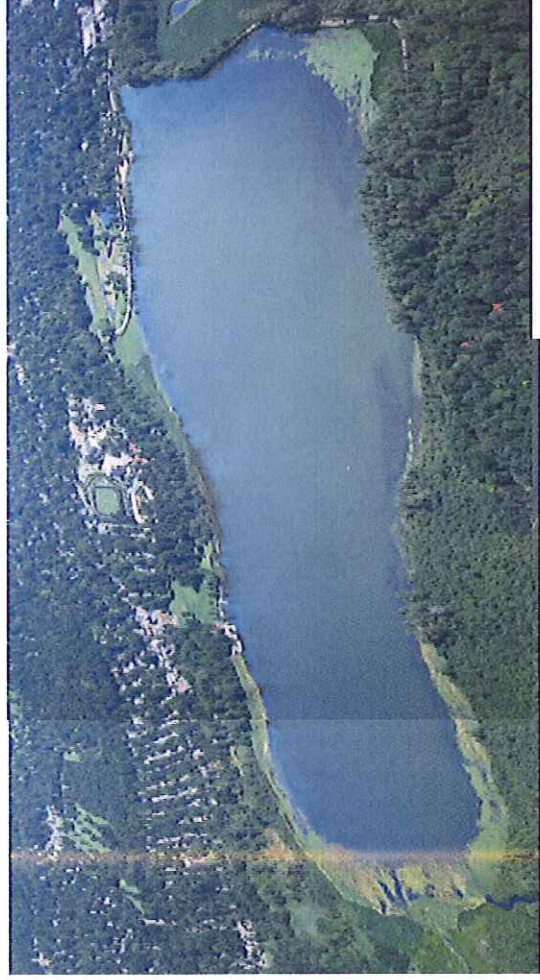
In Lake Wingra



Overall Goal: *Assess mechanisms & identify opportunities*
for improving water quality

Watershed Component

- Evaluate the role of **source loading** on water quality



- ✓ Aerial photo surveying (rain events)



- ✓ Water quality sampling

Spatial Information



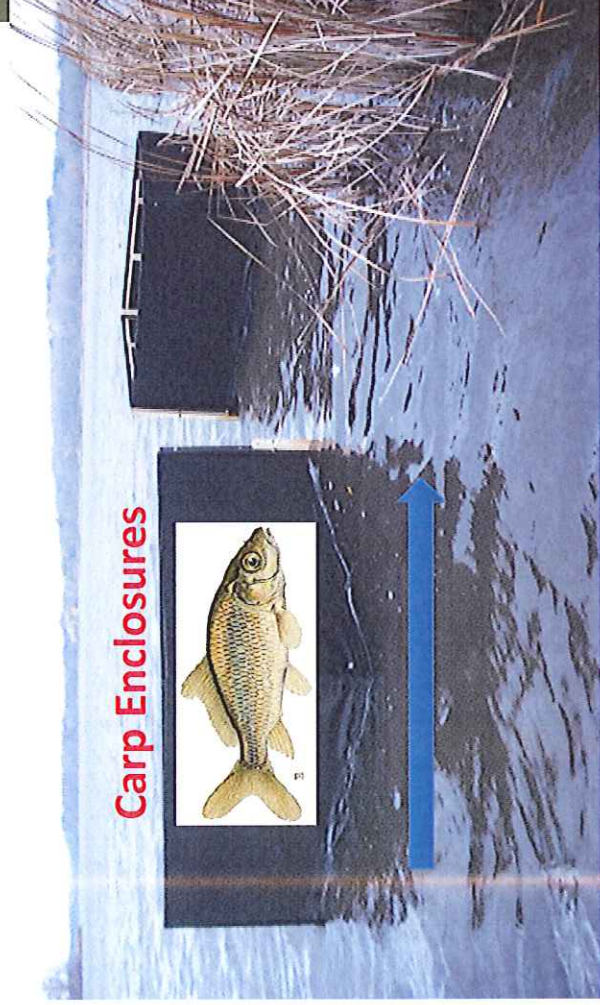
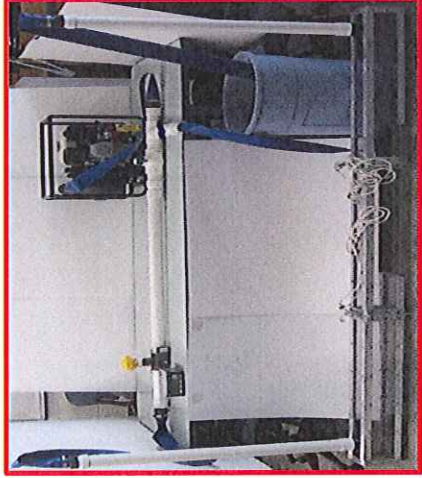
Time Evolution



In-Lake Component

- Evaluate **sediment resuspension** due to **carp** & **wind**

Portable **Sediment Flume (PSF)**

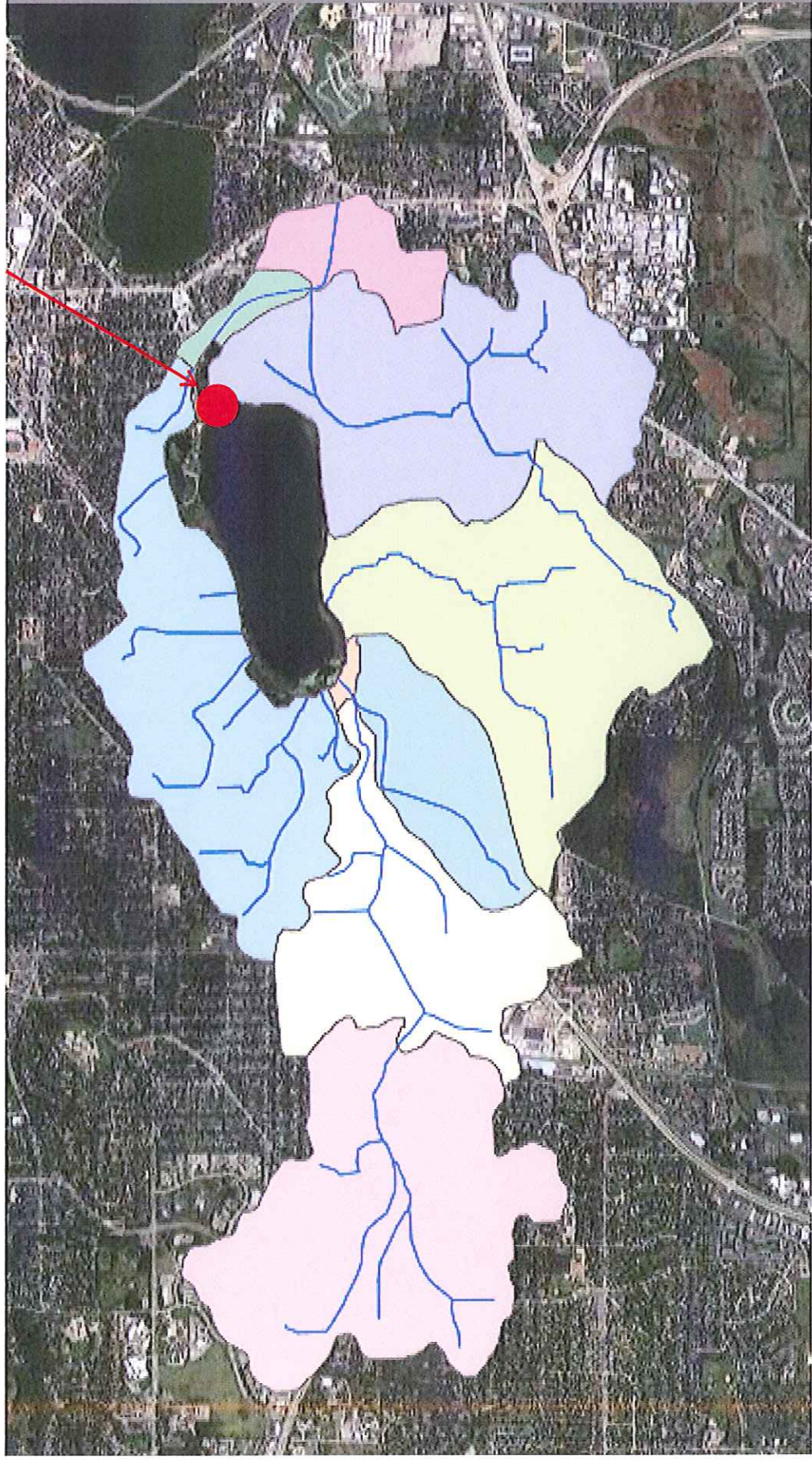


Carp Enclosures

Modeling Component

- Biological (**carp**) – Physical (**wind, storm sewers**) Model

Real-Time Gauging Station





Tasks

✓ Loading driver

✓ Biotic driver

Monitoring



Camera

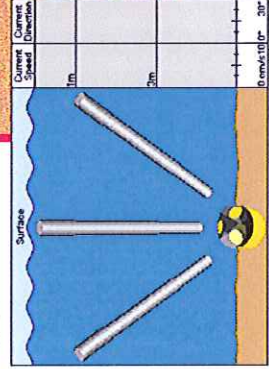
Wind



Temperature



Bathymetry



flows

✓ Wind driver

Hydrodynamic Processes

Modeling

