## What Happens When the Dog Finally Catches the Car?

Implementing Watershed Plans for Lake Bloomington and Evergreen Lake, McLean County, IL

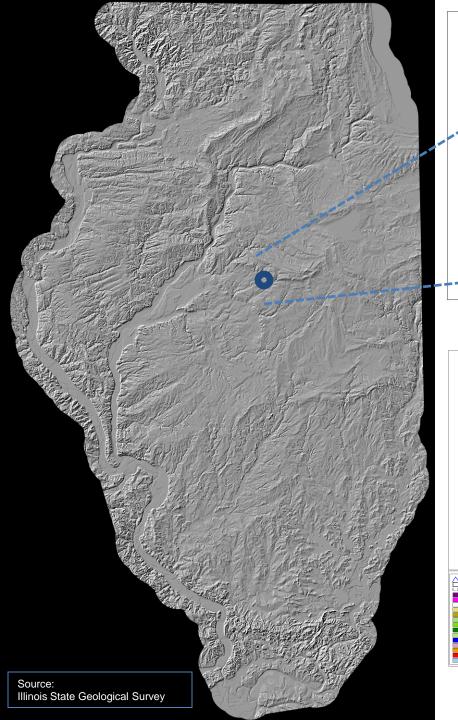
Rick Twait, Jill Mayes, Tony Alwood, Jim Rutherford , Jackie Kraft, Kent Bonhoff, Mike Steffa, Terry Brown, Maria Lemke, Krista Kirkham, Suzy Friedman, Terry Noto, Catherine O'Reilly, Mike Garthaus Illinois Lake Management Association 28<sup>th</sup> Annual Conference April 4, 2013

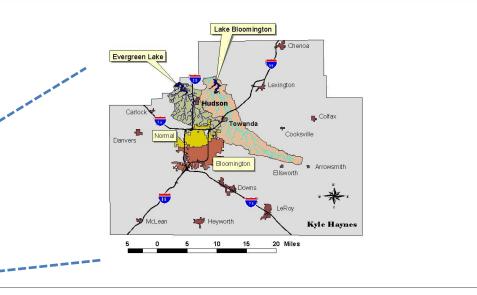
Bloomington, IL

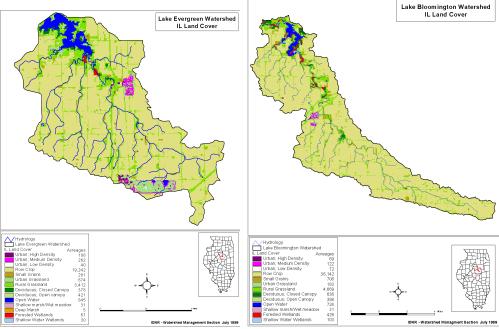
♥Bloomington LINOIS

Common Characteristics of Successful Lake and Watershed Programs: (per limited observations by RMT)

- Have a purpose (defined goals)
- Have dedicated and enthusiastic leadership
- Have a plan
- Have more than one group of constituents
- Have a home (institutional)
- Have been around for a while (longevity)
- Have both short term and long term goals
- Have relatively stable funding (membership dues, association fees, tax revenues, utility support, ...)
- Are not afraid to include new groups or adopt new approaches







Bloomington, Illinois Water Department's Source Water Protection Program

#### Goals

- Improve water Quality
- Reduce sediment inputs
- Extend useful life of the reservoirs
- Reduce occurrences of algal blooms in the lakes
- Improve recreational opportunities in the lakes

Water Supply Characteristics

- 2 reservoirs
- 110 square mile drainage area
- >80% agricultural land use
- Tributary streams regularly exceed the 10 mg/l nitrate-N standard

## Leadership

Can take many forms

## "When the shepherd is on fire, the sheep feel the warmth"

-traditional saintly saying



Leadership is provided by: Private landowners, Producers, SWCD, NRCS, IEPA, IDNR, ISU, U of I, McLean County, City Council, TNC, EDF, ILMA and many others

=8

281

STIHL

# "When you fail to plan,

-traditional coach's saying

#### LAKE BLOOMINGTON TMDL

Final Stage 1 Report: Watershed Characterization, Data Analysis, and Methodology Selection

> Submitted to: Illinois Environmental Protection Agency



TETRA TECH EM INC

November 13, 2006

#### DRAFT

Lake Bloomington Watershed Plan



#### Prepared by: Lake Bloomington Watershed Planning



Implementation of the plans developed by the locally led watershed committees for addressing water quality and total maximum daily loads will help sustain and improve the capacity of both reservoirs to serve as water supplies.

- Based upon NRCS Resource **Planning Process**
- Funded by IEPA to develop locally led watershed plans
- Clean Lakes, VLMP, ambient lakes and in-house monitoring data were used to develop the plans
- Useful when applying for grants!

#### 



Protection Agency

**Total Maximum Daily Load Evergreen Lake Watershed** April 2005



Stage One Final Report

DRAFT

Evergreen Lake Watershed Plan





Funding for this project provided, in part, by the Governor of Illinois and the Illinois

Environmental Protection Agency through Section 319 of the Clean Water Act.



## New Partners: Friends of EverBloom

- "Grass Roots"
- Extremely diverse
- Highly motivated
- Friends of Reservoirs (parent organization) is a potential funding source
- You can organize a chapter for your reservoir (see Mike Garthaus)



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"New" Partners: Illinois State University Hydrogeology Department Geography Department

- Graduate and undergraduate students
- Professors
- Highly motivated
- Unique learning opportunities through use of advanced instrumentation

Partnership allows us to maintain programs that could not be accomplished in-house due to lack of adequate staff numbers New Partners: The Nature Conservancy Environmental Defense Fund

- Wide breadth of experience and expertise
- Full time scientists
- Highly motivated
- Experience in obtaining and managing grants

Partnership allows us to scale up to basin wide implementation

## **Selected Projects**

- Nutrient management (particularly nitrogen)
  - IEPA/USDA, Sand County Foundation
  - Tile research (in-house, ISU)
- Shoreline protection
  - IEPA Conservation Partnership
- Stream Stabilization
  - NRCS State CIG
- Adaptive management for nutrients

   EDF/TNC
- Drinking Watersheds Project
  - TNC/EDF National CIG



