



GRANDE CHEESE:  
*PARTNERING IN THE ROCK AND  
LOWER SUGAR RIVER  
WATERSHEDS*

April 1, 2016

# GRANDE<sup>®</sup>

CHEESE COMPANY



# Grande Education and Networking

- Past five years evaluating what it all means...TMDL, Adaptive Management, and Water Quality Trading
- Get to know the players...WDNR, County Land and Water Conservation Departments, Land Owners in the watershed, NGOs
- Evaluate the projects that are going on now...Madison Met Adaptive Management, Erv with the USF&W and Horicon Marsh
- Get involved with (or start) a local water association...Rock River Coalition, Lower Sugar River Watershed Association
- Start your own sampling if data isn't available...Watershed Action Volunteers and Citizen Based Monitoring



LSRWA



LOWER SUGAR RIVER watershed • association



Lake Winnetka and Sugar River Improvement Association, Inc.



# Corporate Sponsors in the Watershed

- Look who might have an interest or a need?
  - ▣ Who is currently discharging into the watershed?
  - ▣ Do companies have Corporate Reports and what are there goals?
  - ▣ Who is using the watershed?
- As a corporation, let other's know that you are interested in participating
  - ▣ Until 2010, we were inward focused on our activities with the environment mostly focused on energy and water saving goals
  - ▣ It just takes on individual to step up and in 2011 we started looking outward

## In-stream monitoring

- Who will collect TP data?
- Who will analyze these data?
- When and where will samples be collected?
- What quality assurance protocols will be followed?
- Minimum:
  - Biweekly, May-Oct
  - Pour point of action area
- Recommendation:
  - Biweekly, ice in-ice out
  - Multiple sample locations



■ - WQT ■ - AM

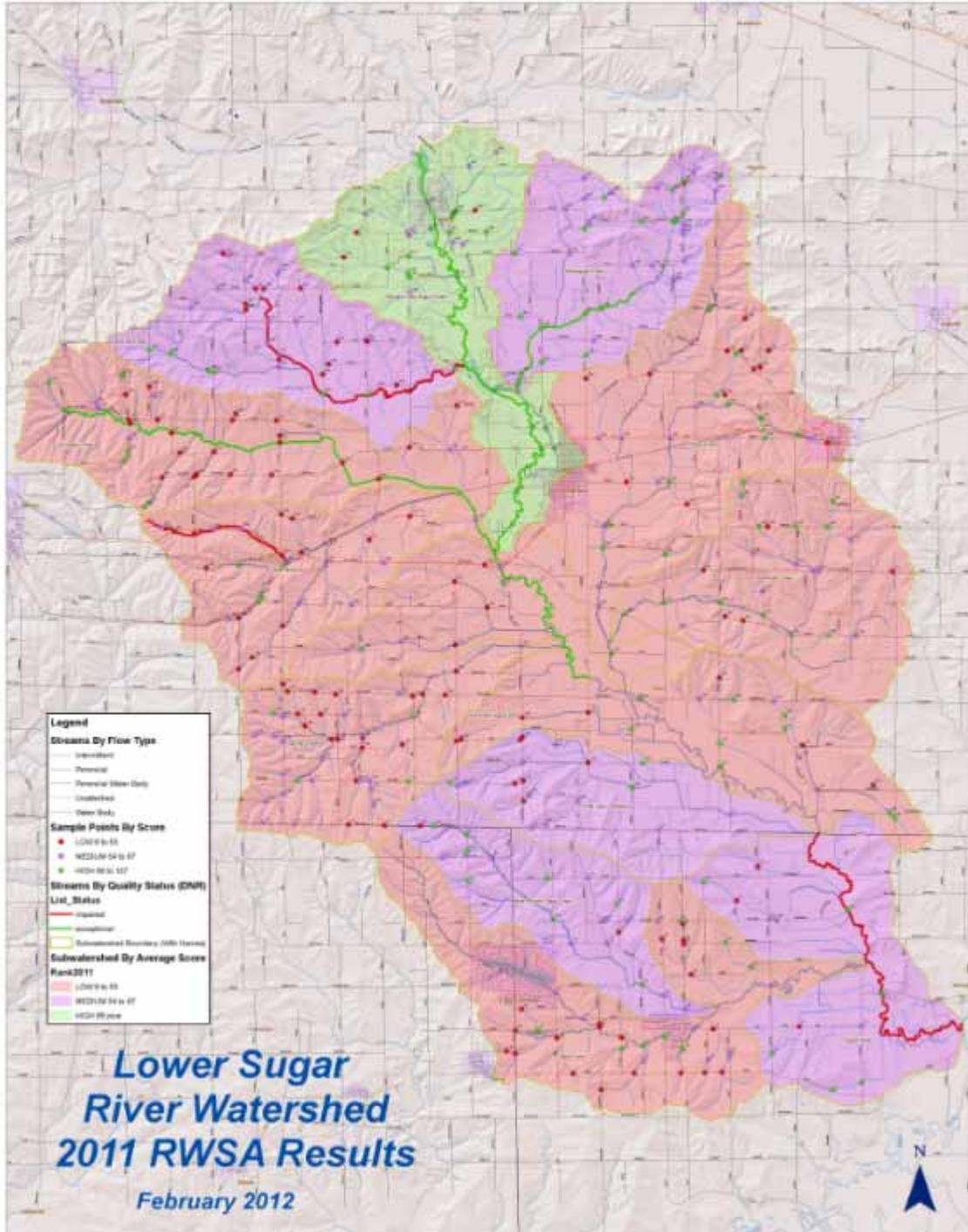
# Applied Ecological Services



- Outstanding ecological resources
- An employee provides leadership for the LSRWA board as President
- AES employees serve on teams and conduct water monitoring
- AES grant match with funds and volunteer time
- Located in the heart of the Lower Sugar River watershed

# Lower Sugar River Watershed Association

- Need to have someone that wants to make a difference
- Need to have a company that supports your efforts
- LSRWA has been around for about five years
  - Funding has been through WDNR grants, donations, and hundreds of volunteer hours
  - Grande has provided matching funds for projects and my time
  - Conducted Watershed Rapid Assessment Surveys at over 300 sites in the LSRW in 2011 and 2012
  - Started a Citizen Based Monitoring program in 2012 with a WDNR grant for the Juda Branch (six sites)
  - Expanded testing in 2013 to other sub-watersheds
- When you are active, others come calling...enter Juda School District

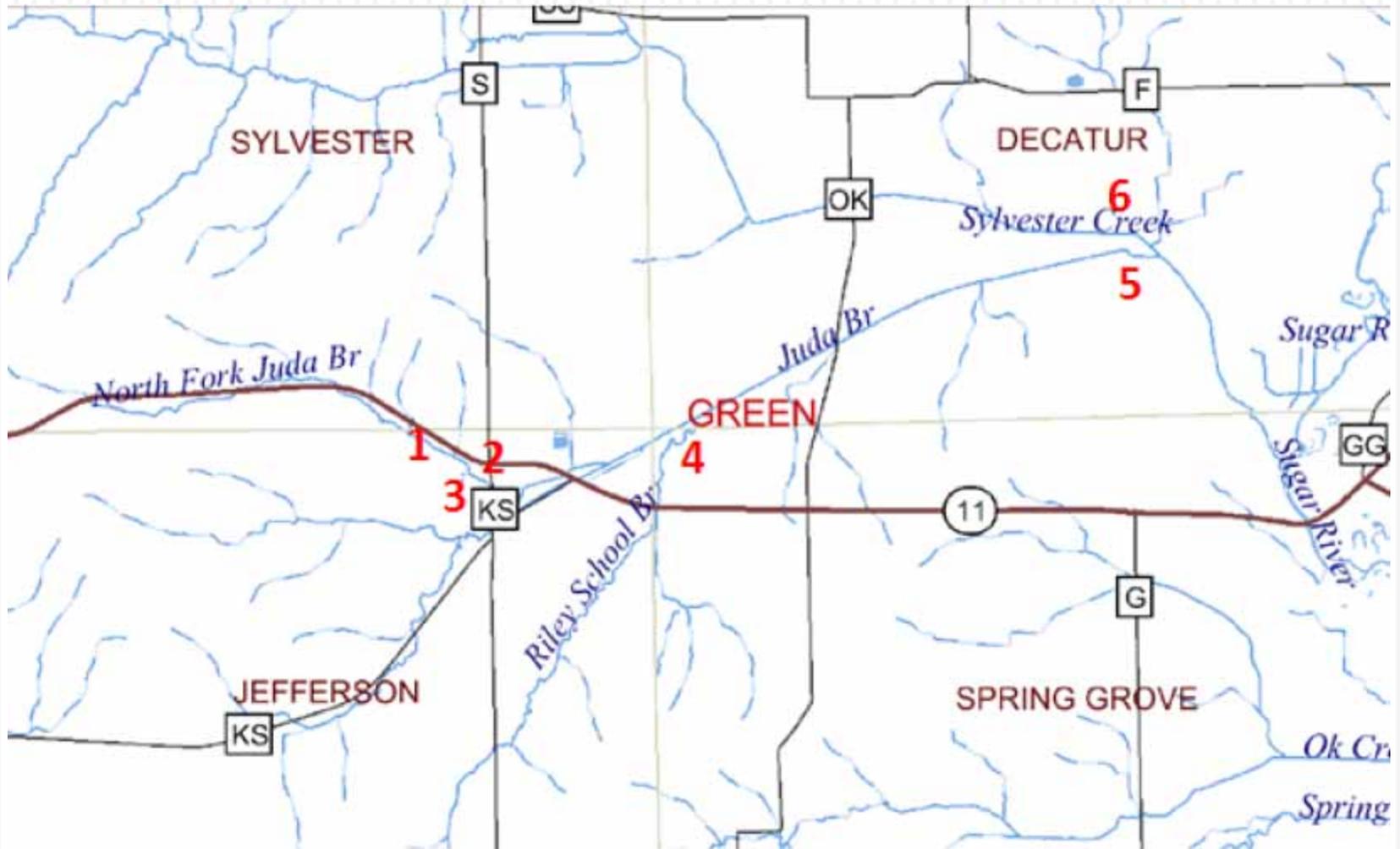




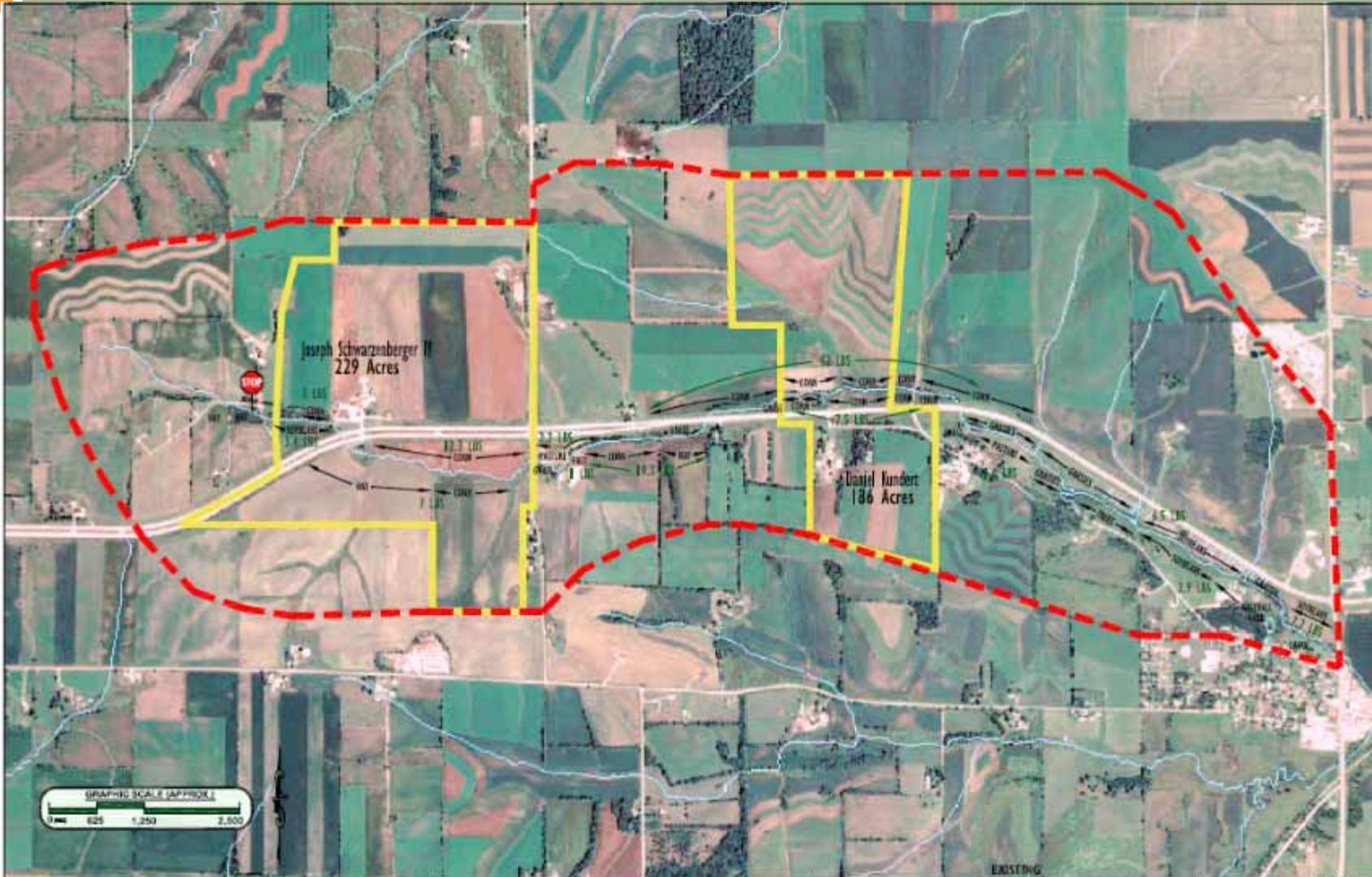
# 27 Existing Lower Sugar River Volunteers

- DLMRA Volunteers-Dick Tripp, Meredith Tripp, Keith Krause, Bob Blankenhorn, Braeden Mauer, Norm Williams, John Winters, plus five others
- Lake Winnetka Sugar River Improvement Association-Jim and Ann Allen
- AES-Nate Gingerich, Lindsay Andrews, Aaron Kubichka, Susan Lehnhardt, Pat Daniels, Dan Walker,
- Grande-Bob Sampson, Jeff Sellnow, Ted Huizenga, Pat Cardiff
- Others-Lyndsey Andrews, Mindy Reinstra, Jill Sampson

# 2012 WAV Citizen Based Monitoring Sites



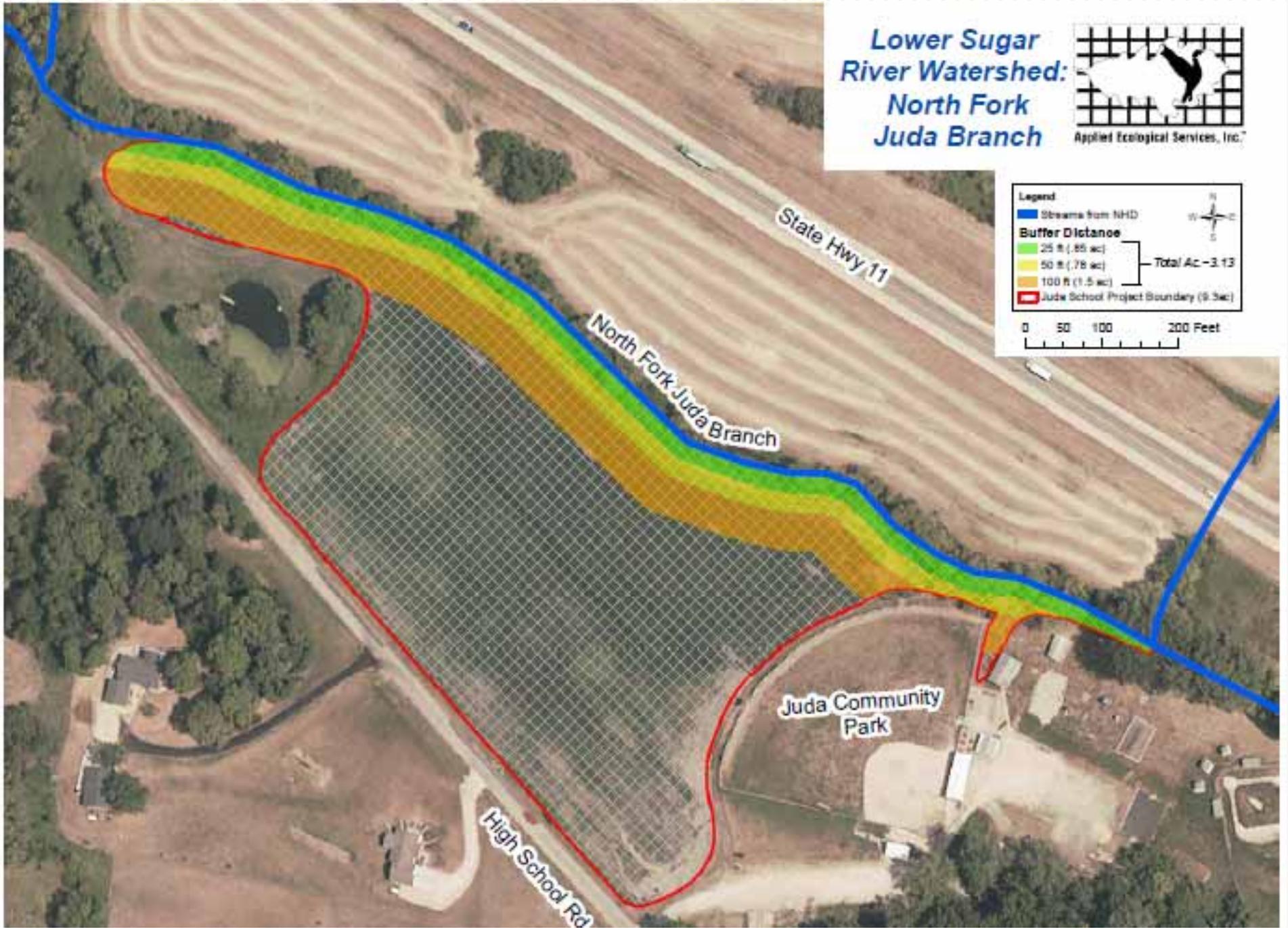
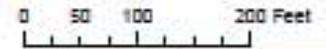
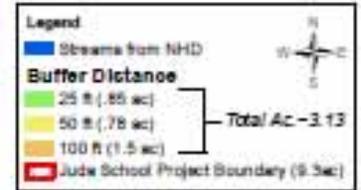
# North Fork Juda Branch Watershed







Lower Sugar  
River Watershed:  
North Fork  
Juda Branch





Water Action Volunteers

### Stream Monitoring Site

The water quality at this location on the North Fork of the Koshong Branch of the Lower Sugar River is regularly checked by Water Action Volunteers stream monitors. This is one of many streams monitored by volunteers in watersheds throughout Wisconsin.



This area is the North Fork Koshong Watershed, outlined in red on the map. The map may show the watershed's position in the larger area draining to the Mississippi River.



Use the legend to see that land uses in the watershed upstream of this site are dominated by agriculture. The way we use the land affects water quality. Non-point pollution – that which comes from sources across the landscape – is largely a result of land use and can contribute sediment, nutrients and other materials that affect water quality.



Visit [www.actionvolunteers.org](http://www.actionvolunteers.org) or scan the QR code to see how volunteers monitor streams like this, to see their results, and to learn how you can get involved.



# Albany High School-Stream Training

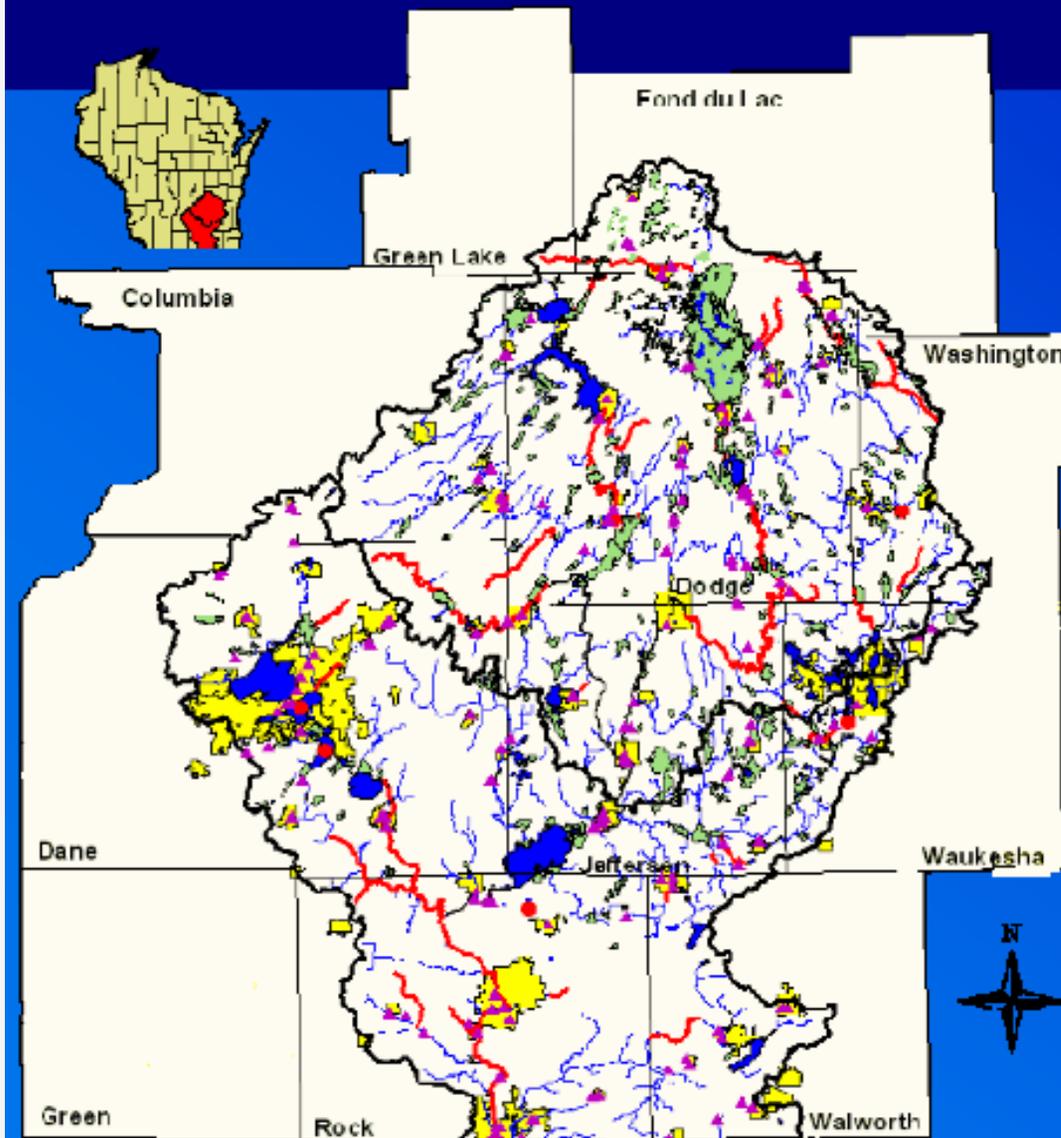




# Grande Brownsville Plant

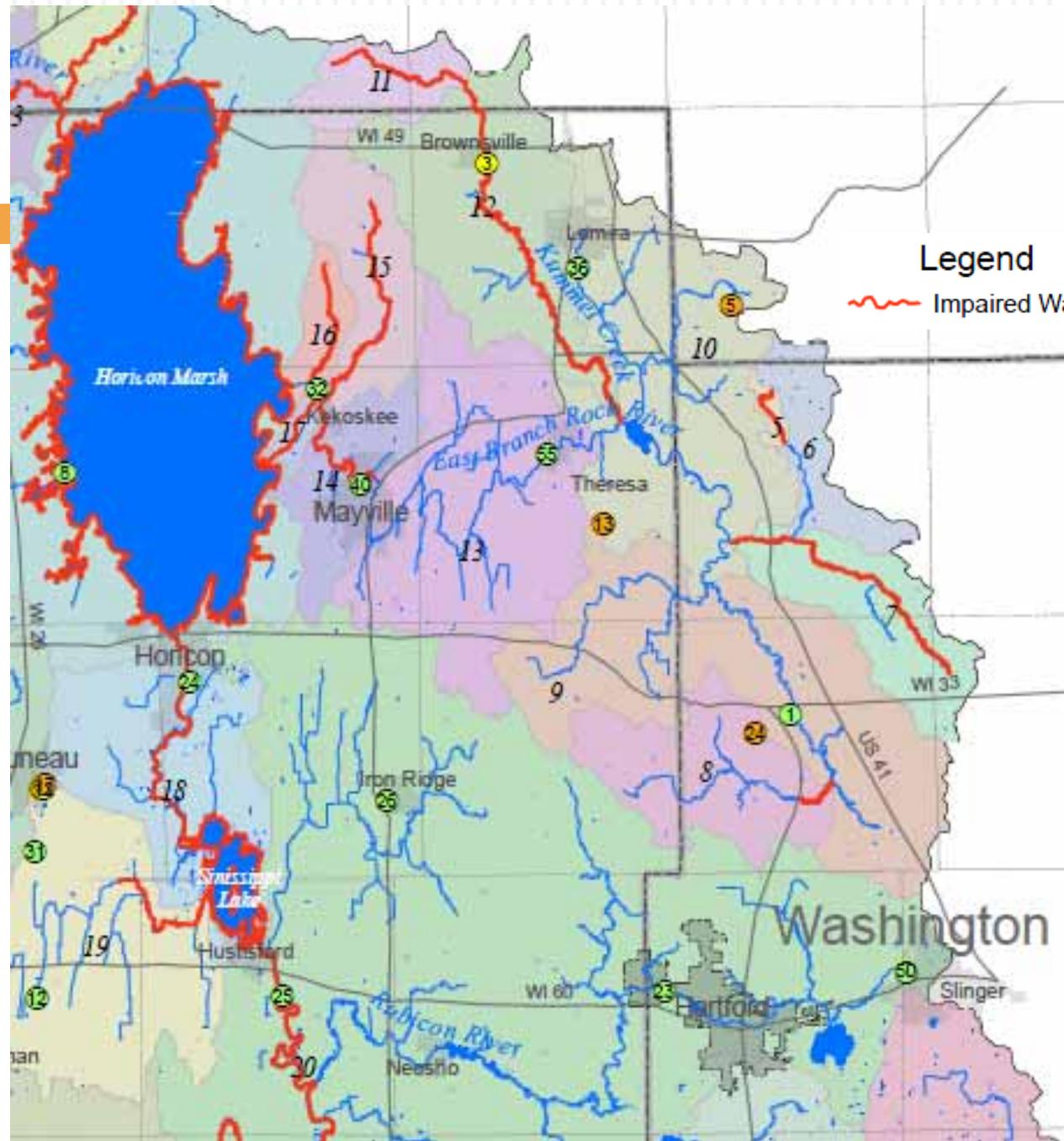


# *Rock River Basin*



3,750 sq. miles  
3,900 river miles  
443 lakes/impoundments

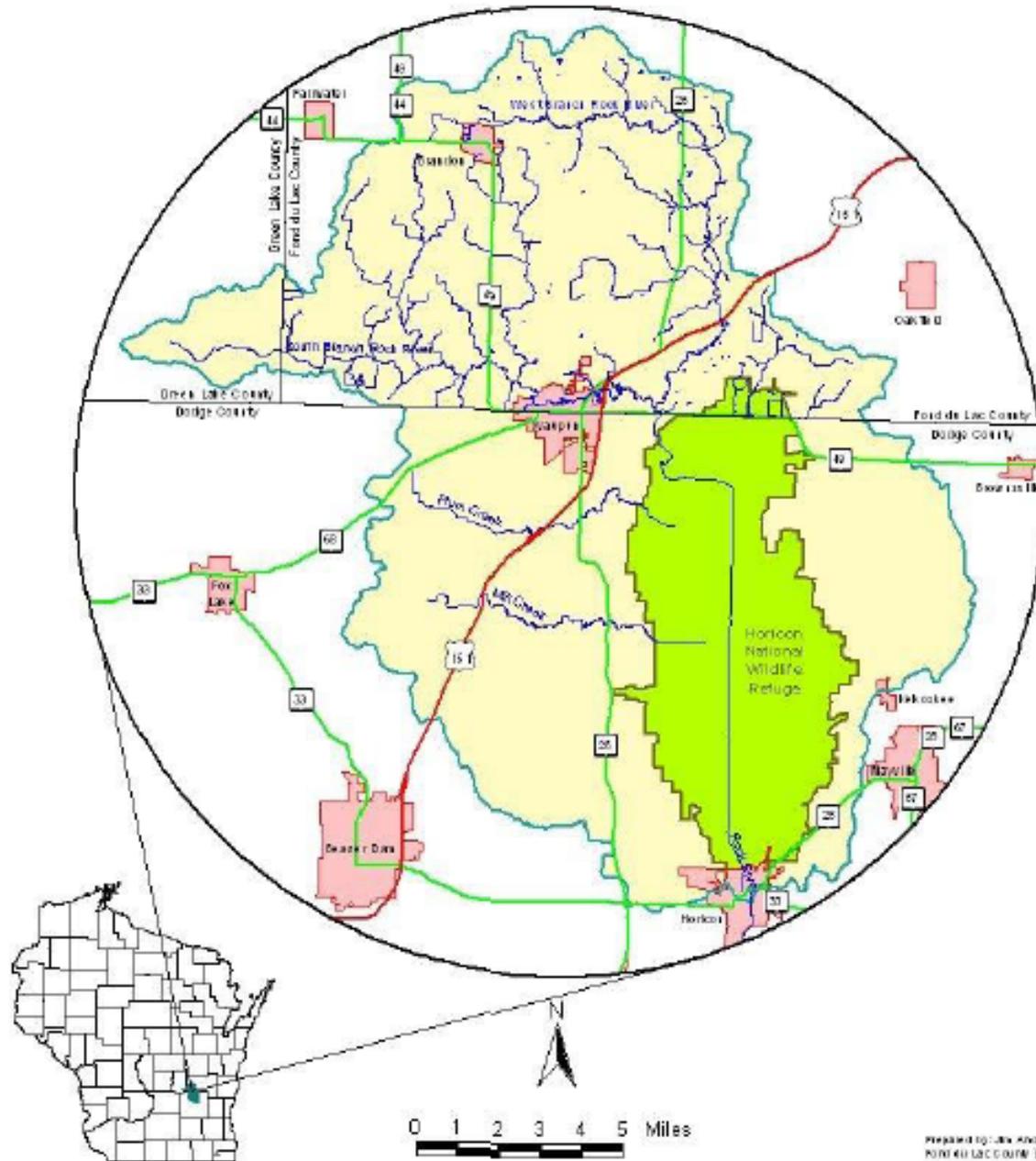




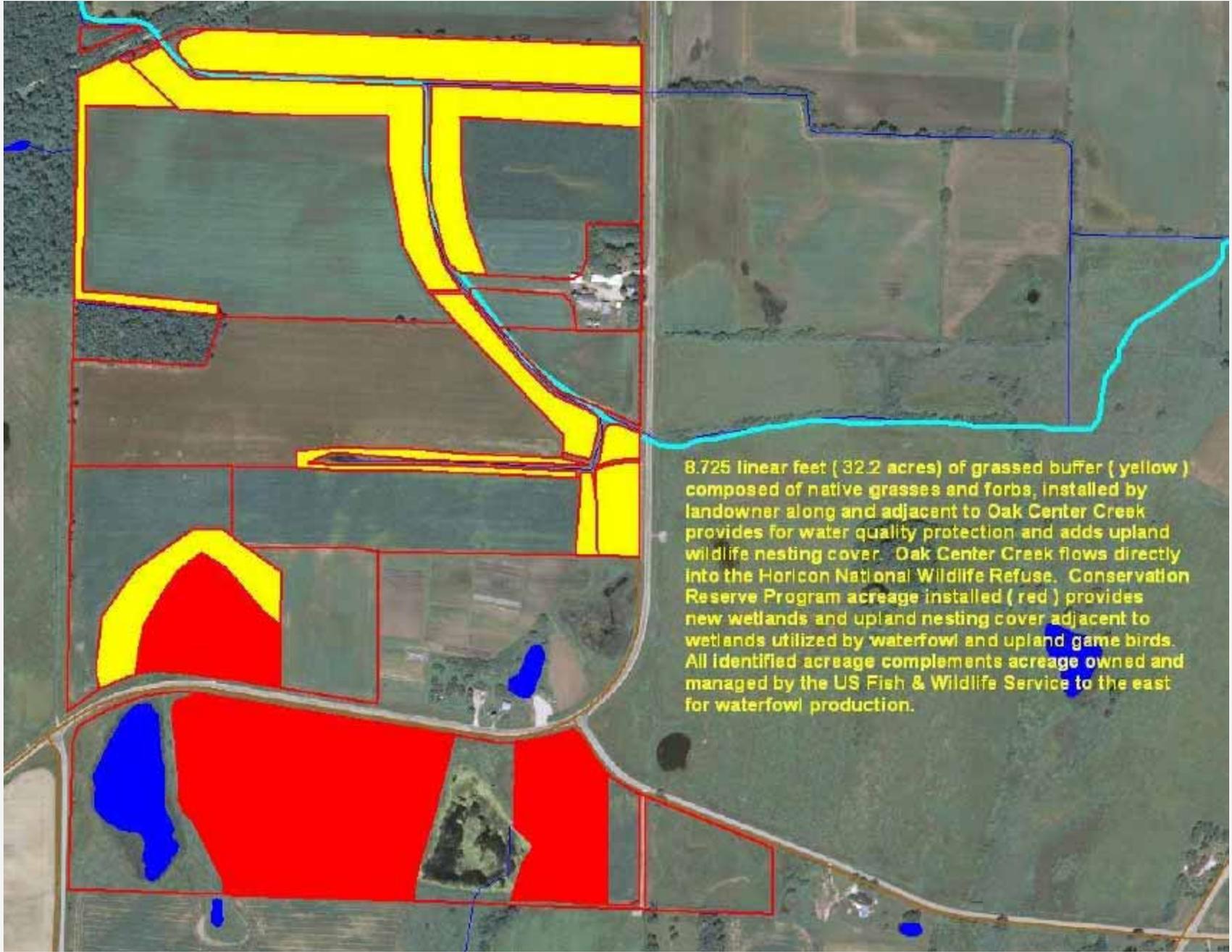
### Legend

- Industrial WWTF
- CAFO
- Municipal WWTF
- MS4
- ~ Impaired Water

# UPPER ROCK RIVER PRIORITY AREA

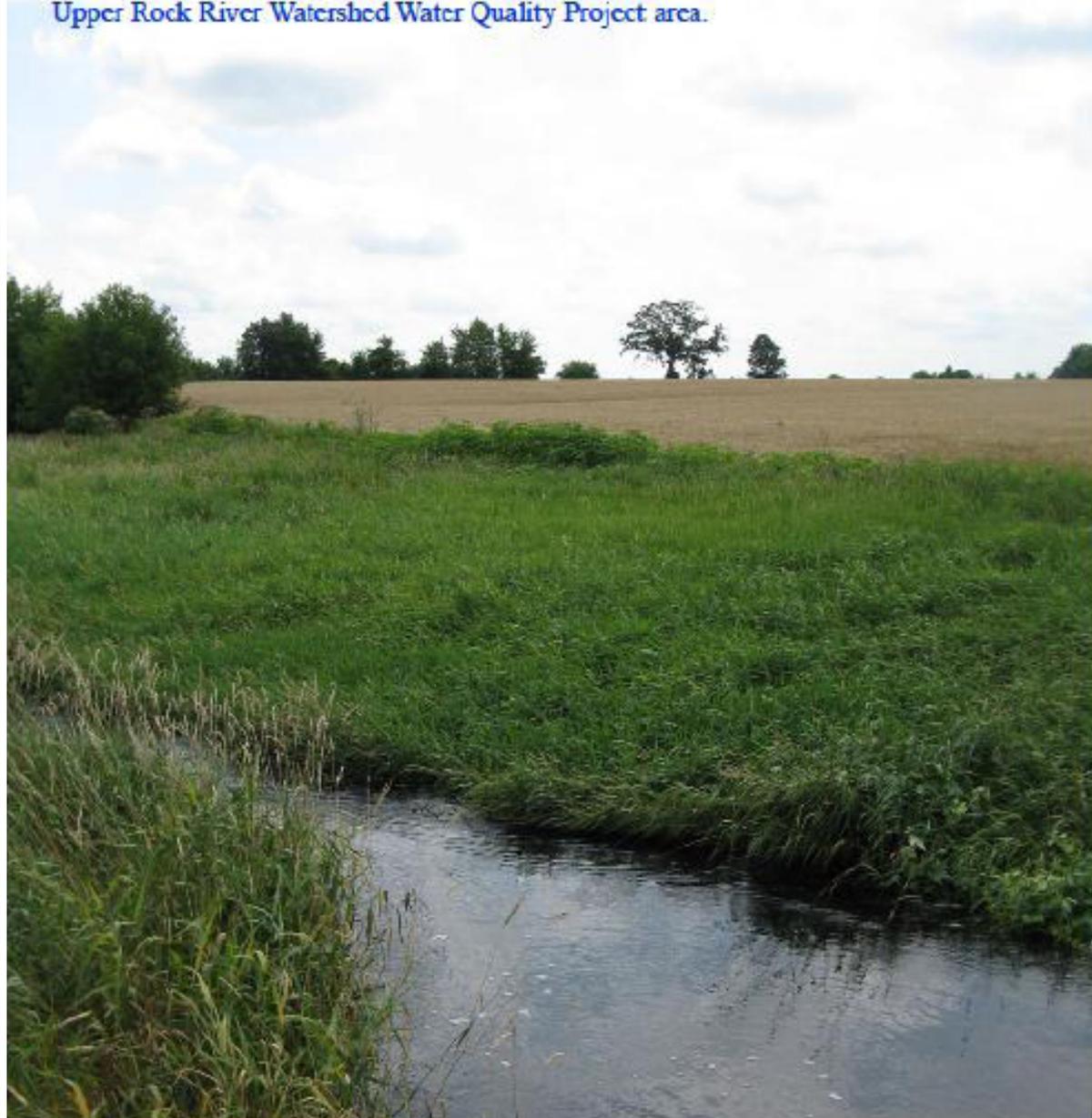


Prepared by: J. A. Anderson  
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August 1, 2009

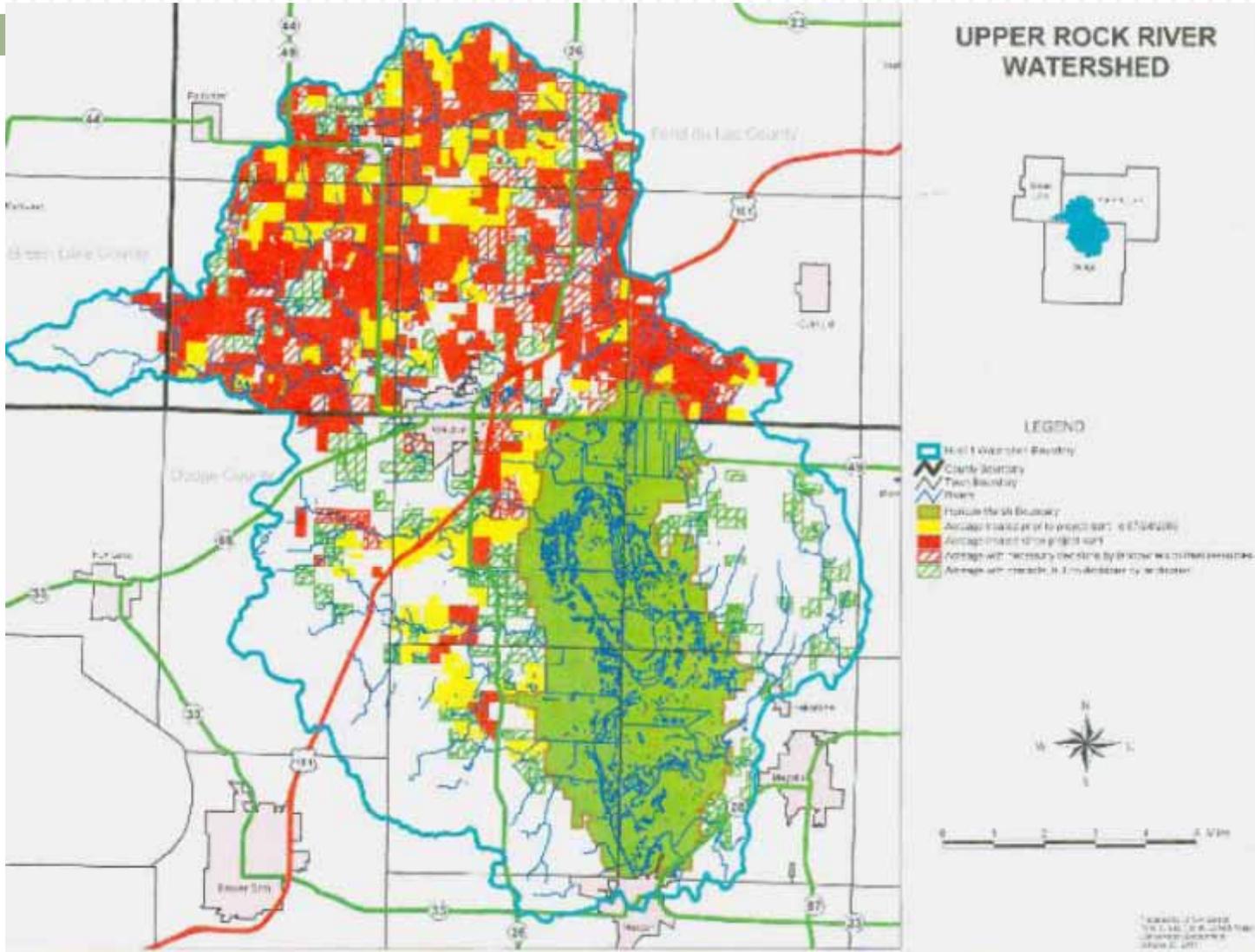


8,725 linear feet (32.2 acres) of grassed buffer ( yellow ) composed of native grasses and forbs, installed by landowner along and adjacent to Oak Center Creek provides for water quality protection and adds upland wildlife nesting cover. Oak Center Creek flows directly into the Horicon National Wildlife Refuge. Conservation Reserve Program acreage installed ( red ) provides new wetlands and upland nesting cover adjacent to wetlands utilized by waterfowl and upland game birds. All identified acreage complements acreage owned and managed by the US Fish & Wildlife Service to the east for waterfowl production.

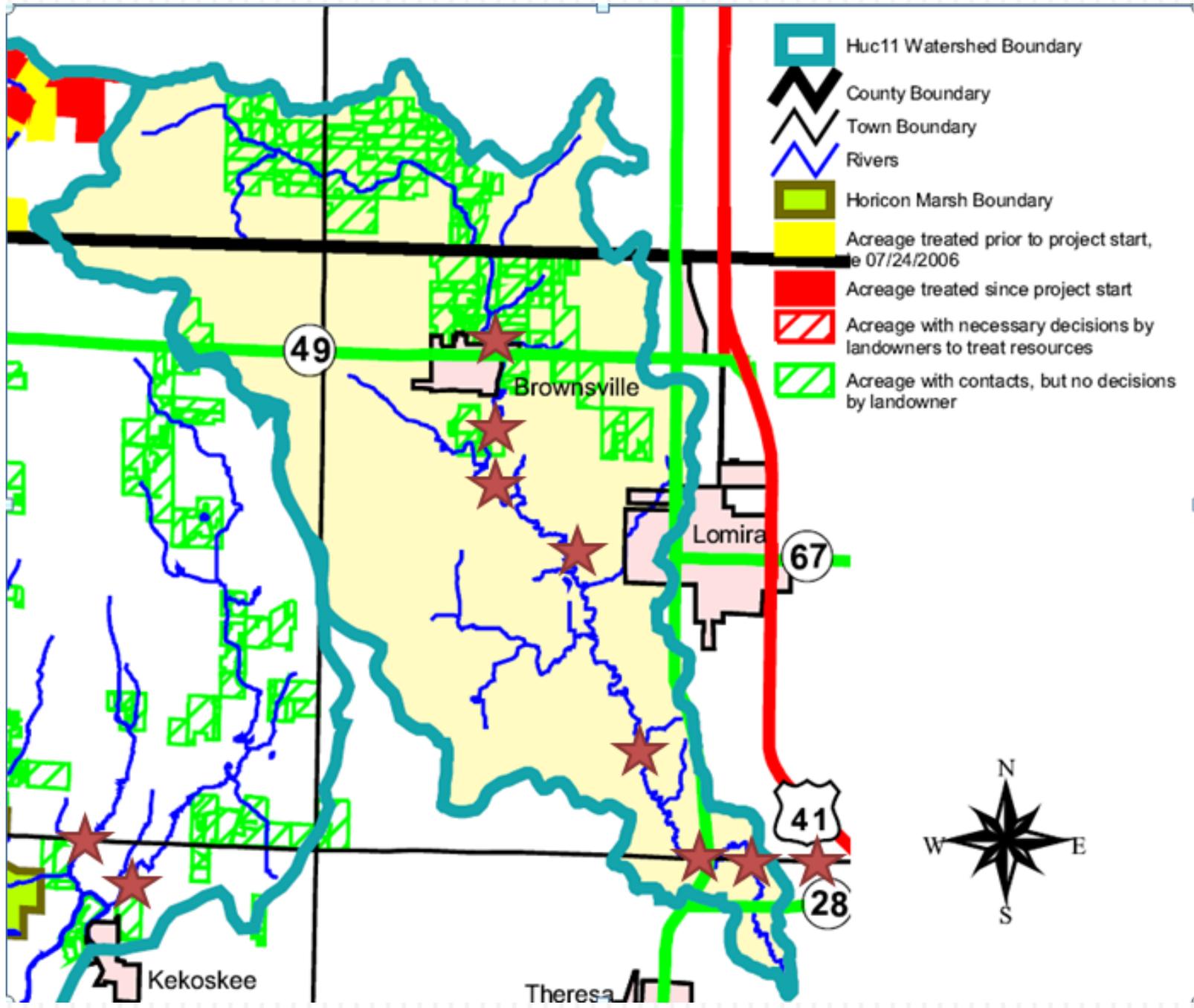
Ground view of grass buffer established along the South Branch of the Rock River immediately adjacent to one of the monthly monitoring sites for water quality in the Upper Rock River Watershed Water Quality Project area.



# 2011 Progress



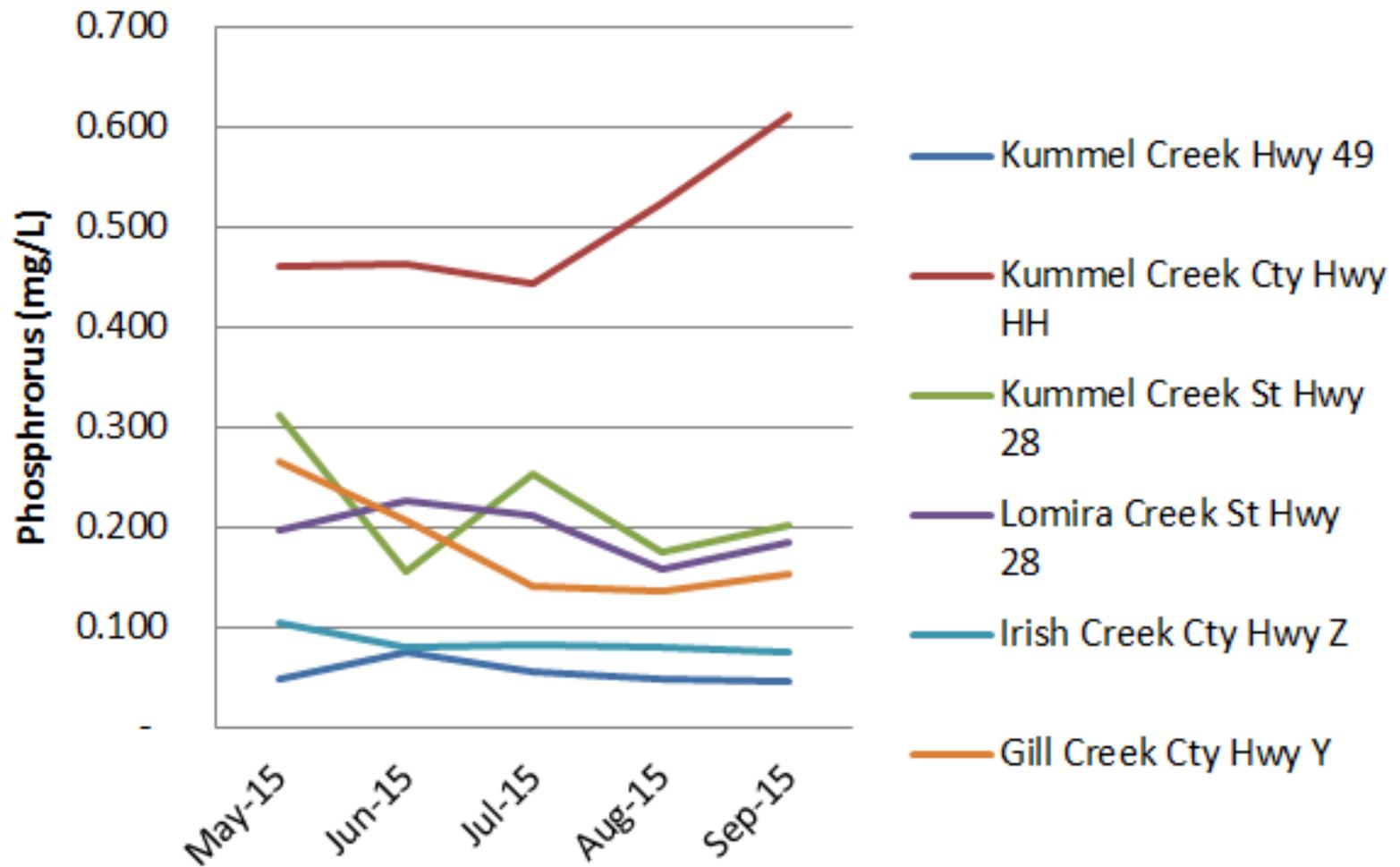




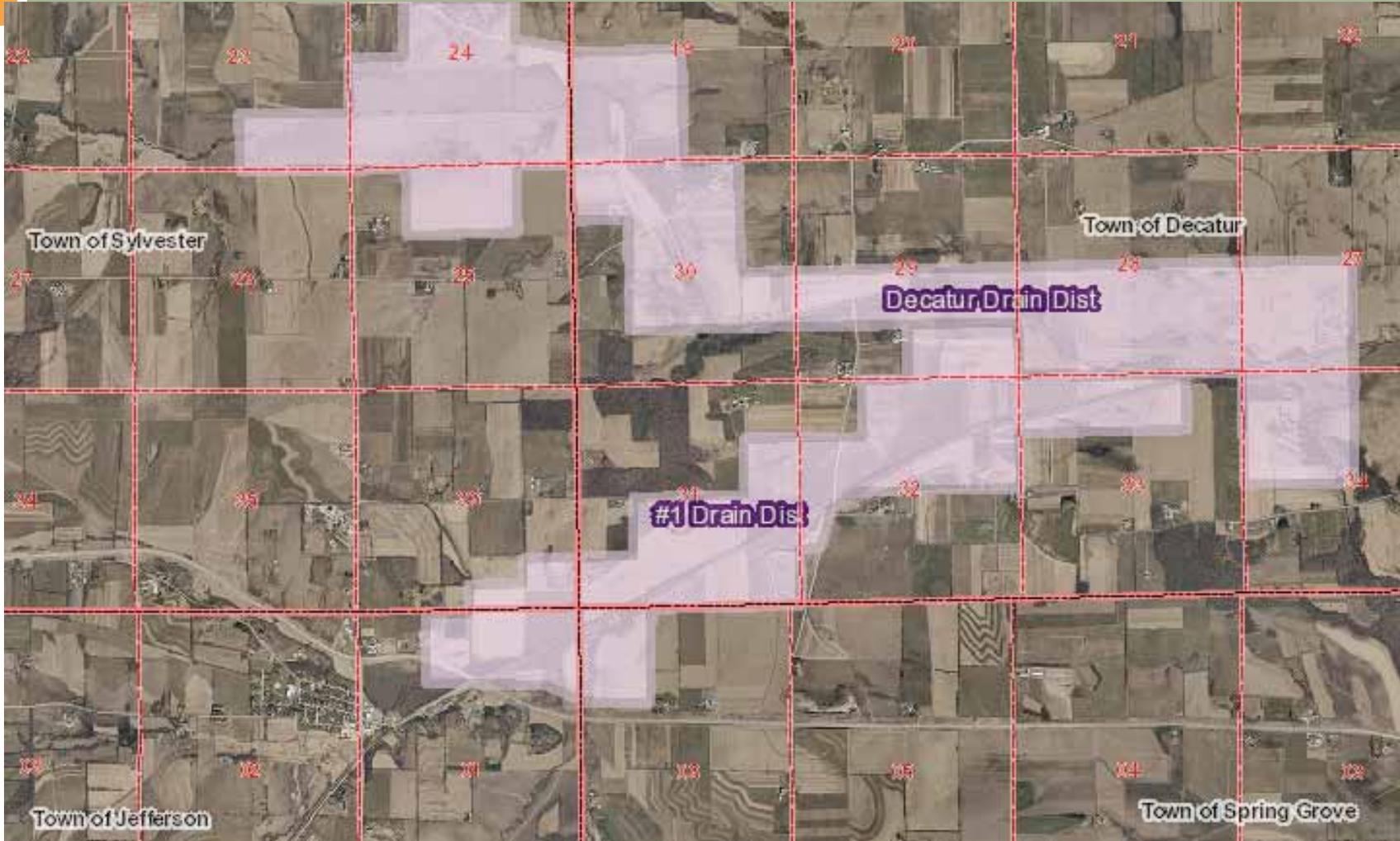
# The "Water Warriors" since 2007



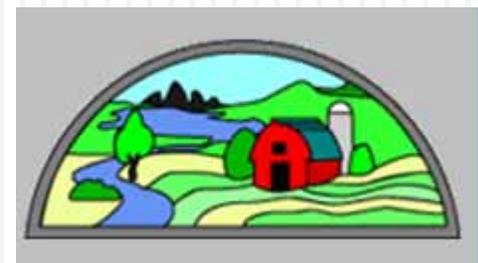
# Kummel Creek and Adjacent Watersheds



# Drainage Districts



# New Partnerships for New Solutions



# Questions

