

Partners and Funding Agencies













Municipalities and Counties of the Root River Watershed











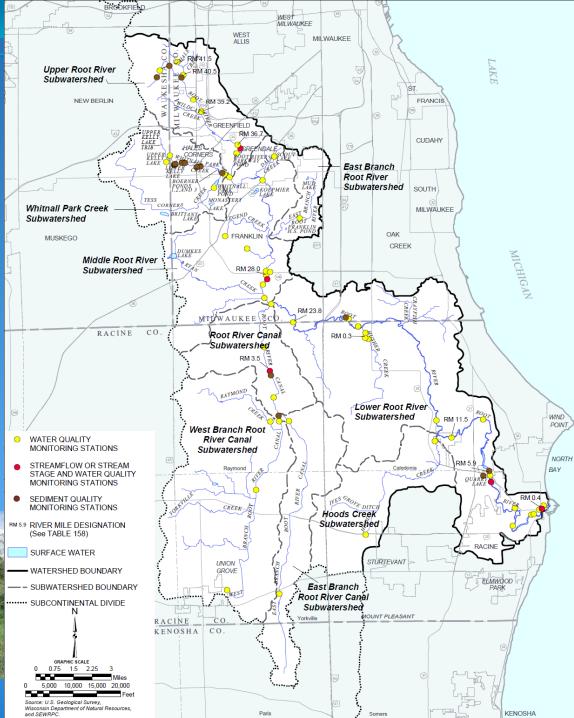
- > 197.6 square miles
- > 4 counties
- > 19 municipalities

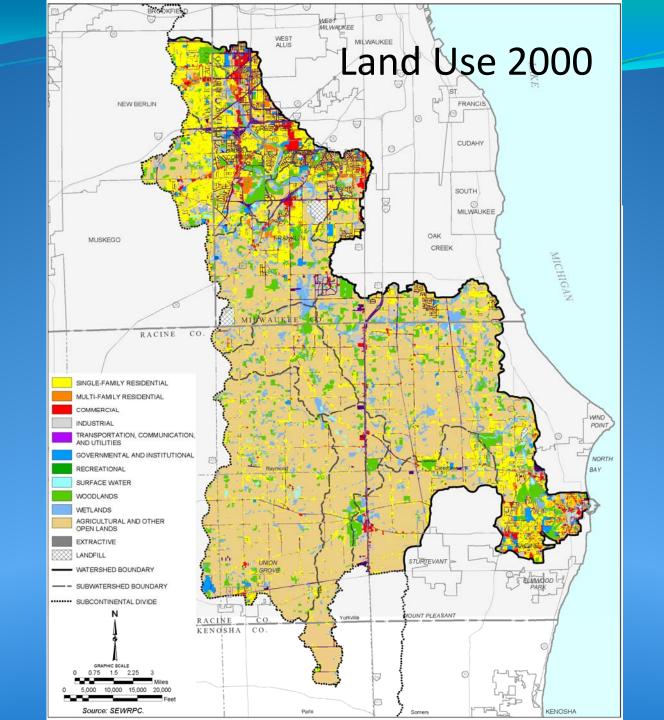


Surface Waters of the Root River Watershed







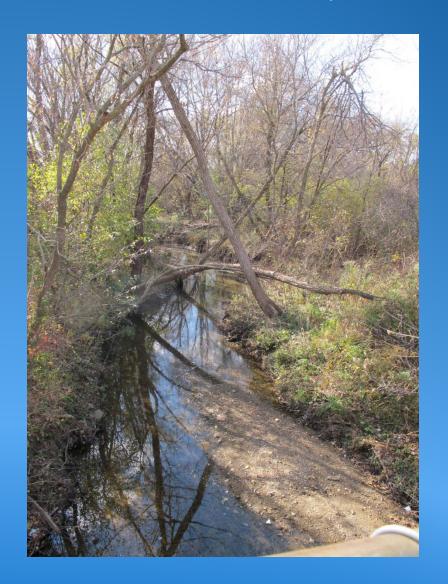


Issues Identified in the Findings of the Regional Water Quality Management Plan Update (2007) and Other Recent Planning Efforts

- Impairments related to low dissolved oxygen
- Impairments due to fish consumption advisories
- High fecal indicator bacteria concentrations
- Poor quality fishery upstream of Horlick Dam
- Fragmentation of terrestrial habitat
- Streambed and streambank erosion
- Access to the River
- Invasive species

General Plan Goal—Refine and Detail RWQMPU

- Identify a set of focus issues to address over a relatively short time frame
 - Tractable
 - Small number of focus issues
 - Five year time frame
 - Make improvements



Focus issues

- Two-part survey of stakeholders
 - Part 1 Identify the issues
 - Part 2 Prioritize the issues
- Results Part 1
 - 31 responses
 - 318 answers
 - Distilled to 43 issues

Focus issues

- Results Part 2
 - 61 responses Four themes emerged
 - Four focus issues

Focus Issues

- 1. Water Quality
- 2. Recreational Use and Access
 - Examples
 Bacteria, access points, fishery quality
- 3. Habitat Conditions
 - Examples

 Buffers, connectivity, passage barriers, invasive species
- 4. Flooding

Plan Approach

- Summarize Recommendations of the Regional Water Quality Management Plan Update (RWQMPU)
- 2. Evaluate Implementation of the RWQMPU
- 3. Inventory Recent and Ongoing Projects, Programs, and Initiatives and Integrate these Into Recommendations
- 4. Review and Refine Initially Identified Focus Issues
- Characterize the Watershed Concentrating on Features Related to the Focus Issues

Plan Approach

- Identify Targets to be Achieved by the End of the Plan Period
- 7. For Each Target, Identify Actions to be Taken
- 8. Identify Foundation Actions
- Present Actions in Addition to those Recommended in the RWQMPU
- 10. Develop an Implementation Strategy

Summarizing the Recommendations of the Regional Water Quality Management Plan Update



Recommendations of the Regional Water Quality Management Plan Update

- Land Use (5)
- Point Source Abatement (9)
- Rural Nonpoint Source Controls (11)
- Urban Nonpoint Source Controls (8)
- Instream Water Quality Measures (9)
- Inland Lake Water Quality (3)
- Auxiliary Water Quality Measures (12)
- Groundwater Management (4)
- Water Use Objectives (2)

Implementation Status of the Regional Water Quality Management Plan Update

- Classified recommendations into three groups
 - Recommendations that reflect existing regulatory requirements
 - 2. Recommendations that are in various stages of implementation
 - 3. Recommendations that are not yet implemented

Recommendations that Reflect Regulatory Requirements

Examples

- Regulation of point sources through the Wisconsin Pollutant Discharge Elimination System
- Bans and restrictions on possession, transport, transfer, and introduction of invasive species
- Phosphorus fertilizer ban partially implements fertilizer management program recommendation

Recommendations that Reflect Regulatory Requirements

- Examples
 - Local pet litter ordinances
 - Most of the municipalities in the watershed have them



Recommendations in Various Stages of Implementation

- Most of the recommendations
- Examples
 - Construct and maintain local sanitary sewer systems
 - Implement practices to reduce soil loss from cropland below the tolerable soil loss rate
 - Establish riparian buffers
 - Restore and enhance stream channels

Recommendations in Various Stages of Implementation

- Examples
 - Collection programs for expired and unused medicines
 - 1 Collection events
 - 2. Drop-off centers and boxes
 - 3. Mail back programs
 - Most of the watershed is covered by some program

Recommendations that Are Not Yet Implemented

Examples

- Abandoning the Yorkville wastewater treatment plant at the end of its useful life
- Increasing the levels of cost-share funding available for funding barnyard runoff BMPs
- Upgrading water use objectives for Hoods
 Creek, Tess Corners Creek, Whitnall Park Creek

Next Steps

- Goal is to develop specific, targeted recommendations to make improvements in the four focus areas
- Characterize the watershed
 - Finer scale
 - Examine factors most closely related to the focus issues
 - Update and expand those analyses that are most closely related to the focus issues

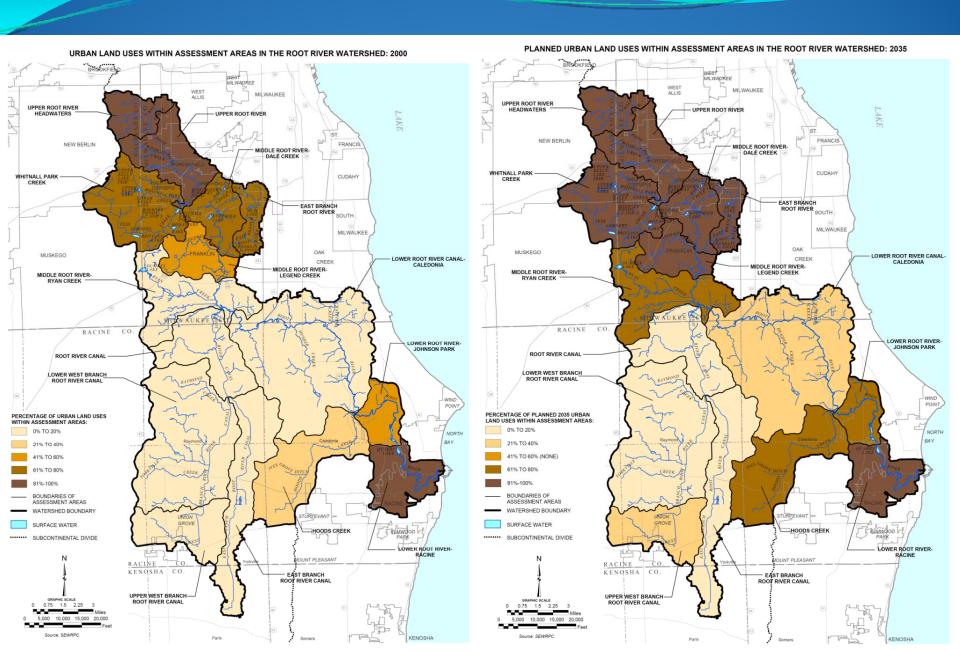
Characterization of the Watershed

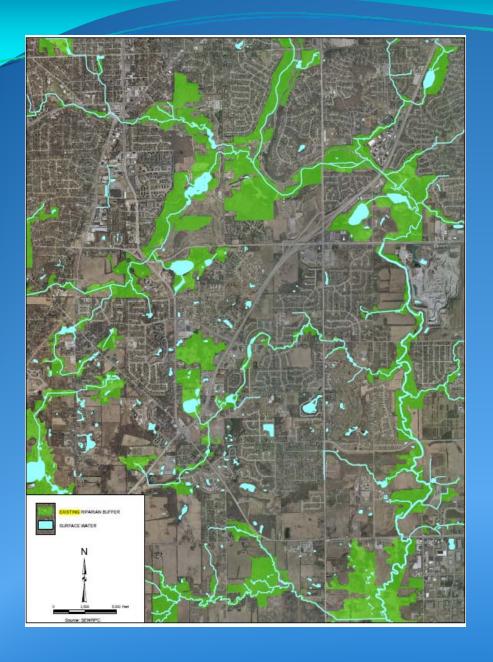
- Assessing conditions at Horlick Dam
 - To provide information to inform decision making

- Factors examined
 - Sediment behind the dam
 - Elevations
 - Surrounding area

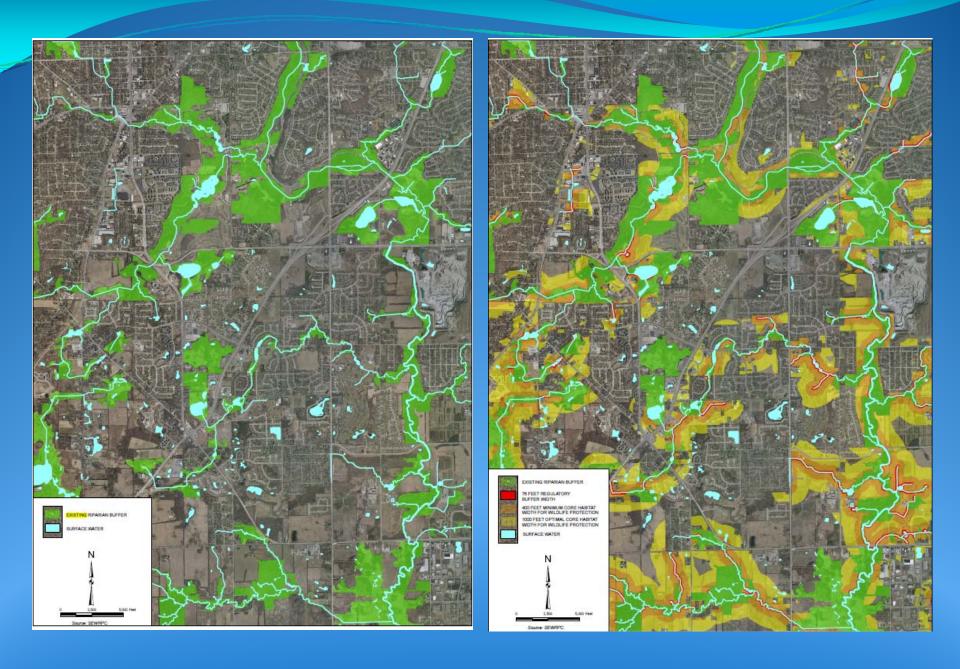


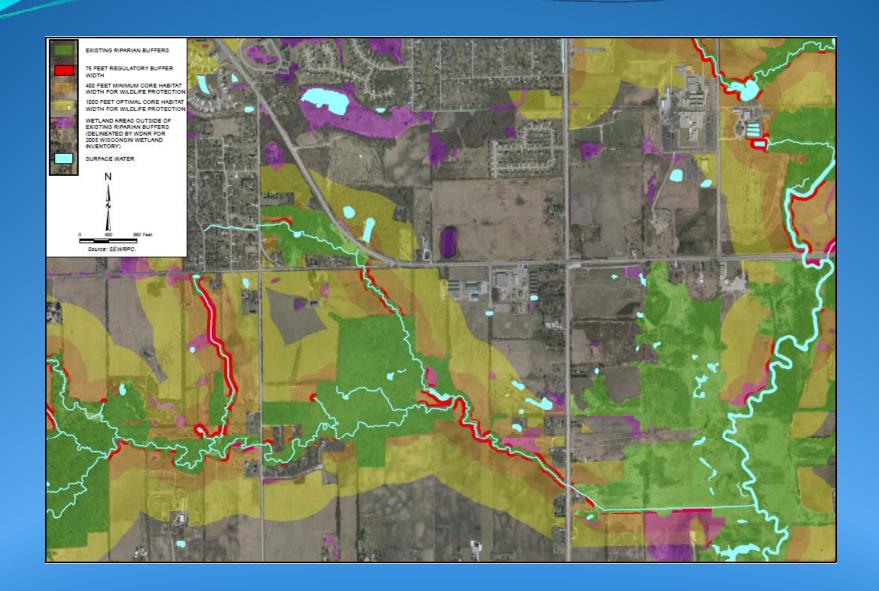
Characterization of the Watershed





- Examining Riparian Buffers
 - Identify sites that could increase connectivity





Project Timeline

- Project runs through December 2013
- **2012**
 - Characterize the watershed relative to focus issues
 - Identify targets to be achieved
 - Identify actions to be taken
- **2013**
 - Identify actions to be taken
 - Identify Foundation actions
 - Develop implementation strategy

Project Web Site

- http://www.sewrpc.org/SEWRPC/Environment/Root-River-Watershed-Restoration-Plan.htm
 - Presentations from RRRPG meetings
 - Draft chapters as they are completed
 - Comment screen

