

Watershed Planning in Ferson-Otter Creeks

We Save Land. We Save Rivers.



Chicago Metropolitan Agency for Planning (CMAP)

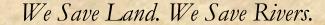
- The official regional planning organization for the northeastern Illinois counties of Cook, DuPage, Kane, Kendall, Lake, McHenry, and Will.
- The delegated authority for the region's areawide water quality management plan.
- Provides technical assistance to local governments and nonprofits working to develop and implement watershed-based plans.
- Published the Guide for Developing Watershed Action Plans in Illinois, a resource for locally-led watershed planning initiatives.





Illinois Environmental Protection Agency

grant from the Illinois Environmental Protection Agency (IEPA), Bureau of Water, to the Chicago Metropolitan Agency for Planning (CMAP).







The Conservation Foundation

- Not-for-profit land and watershed protection organization.
- Active in northeastern Illinois since 1972.
- TCF's Mission: To preserve natural areas and open space;
 To protect rivers and watersheds;
 To promote sustainable development and design;
 And to promote stewardship of our environment

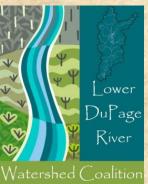


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TCF and Watershed Planning

Blackberry Creek
Aux Sable Creek
Big Rock Creek
Tyler Creek
DuPage River
Salt Creek









Fox River Ecosystem Partnership



- A not-for-profit, created in 1996,
 "FREP" is comprised of Fox
 River Watershed stakeholders.
- One of 41 partnerships of the Illinois Department of Natural Resources' Partners for Conservation Program
- Vision is to help balance the uses and demands on natural resources while preserving and enhancing a healthy environment.





What is a watershed?

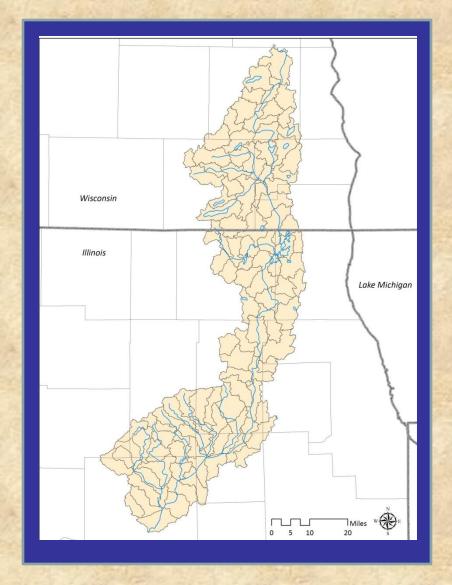
- The area of land that catches rain and snow and drains into a stream, river, lake or groundwater.
- How land is used in a watershed effects water quality.
- The watershed has become the planning and management unit of choice for many water resource issues.





What is a watershed?

It's a matter of scale...

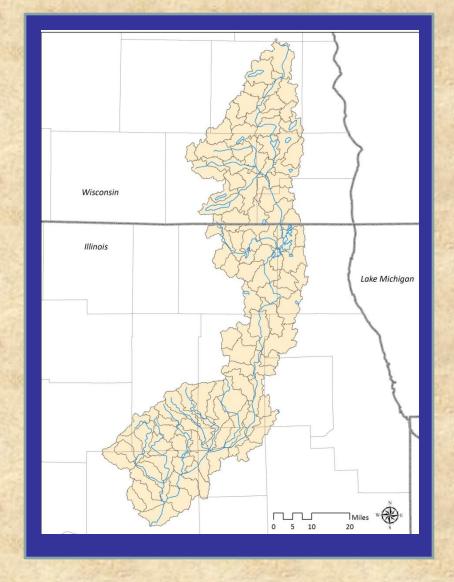




CMAP

The Fox River Basin Facts

- Third-largest tributary to the Illinois River
- 185 miles from Waukesha, WI –
 Ottawa, IL
- 2,658 sq. miles (1,720 in IL)
- 2,300 river & tributary streams (IL)
- Parts of 11 IL counties; 11% of Illinois' population.





The Fox River Basin Inventory

- Abundant recreational opportunities and high quality natural resources attracts population growth.
- Four segments and 14 glacial lakes,
 "biologically significant."
- 150 state-threatened and endangered species found within watershed.





The Fox River Basin Impairments

- Impact from urban development and agriculture.
- Nonnative vegetation has led to streambank erosion.
- 14 of the 17 segments in nonsupport for aquatic life.
- All segments in nonsupport for fish consumption.
- Seven of ten assessed segments in nonsupport for primary contact.
- One of two segments used for public water supply is in nonsupport.





ILLINOIS INTEGRATED WATER QUALITY REPORT AND SECTION 303(d) LIST - 2010

Clean Water Act Sections 303(d), 305(b) and 314

Water Resource Assessment Information and Listing of Impaired Waters

Volume I: Surface Water

April 2010

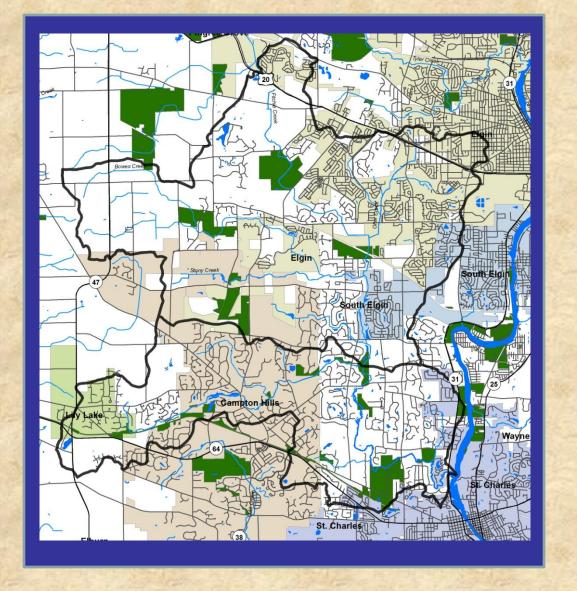


Illinois Environmental Protection Agency Bureau of Water





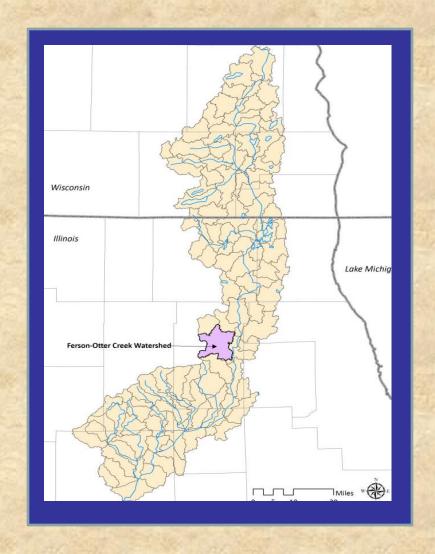
The Ferson-Otter Creek Watershed





Ferson-Otter Creek Watershed Facts

- Drainage area of 54
 sq. miles
- 29% developed
- Kane County, 5th
- Elgin, St. Charles,
 Campton Hills, South
 Elgin, and Lily Lake
- Population: approx.32,515





Ferson-Otter Creek Watershed Conditions

- Both Ferson Creek and Otter Creek assessed and in support for aquatic life.
- Ferson Creek in nonsupport for primary contact fecal coliform. (Otter Creek not assessed)



- Neither creek assessed for secondary contact, fish consumption, or aesthetic quality.
- Quality of Lower Fox River
 Basin gives context for
 Ferson-Otter Watershed.







Why do watershed planning?

- To protect and improve the health of the watershed.
- To address problems that go beyond political and geographical boundaries – problems that are often too costly and complex for just one.
- To facilitate partnerships to solve problems.
- To outline management activities to improve water quality.





















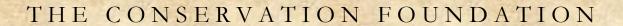
























How do we do watershed planning?

- Stakeholder Involvement
 - Local buy-in increases
 the probability of long term success through
 trust, commitment and
 personal investment.
- Identify the issues
 - Problems: poor water quality
 - Pollutants: nutrients, metals,
 chlorides
 - Stressors: dissolved oxygen,
 lack of habitat







Develop Goals and Objectives

- Driven by problems.
- Need to be measurable or quantifiable.
- Explain how each goal will be accomplished, identify who is responsible, and provide a timeline.
- Goals and objectives are prioritized.









What does a watershed plan include?

- Written document, website
 - Overview of current conditions
 - Potential sources of impairment or problems
 - Goals and strategies
 on how to solve the
 problems
 - Timeline for completion,estimation of costs



Dynamic – changes over time



A watershed plan is NOT...

- a zoning map
- a land-use map
- a comprehensive plan

- · a means to designate land uses
- a legally binding document
- a required part of local comprehensive plans









A watershed plan DOES...

- Focus on a waterway and its tributaries.
- Involve stakeholders in a cooperative partnership.
- Establish missions, goals, and objectives.
- Analyze watershed problems.
- Provide recommendations to help with point and nonpoint source pollution issues.



- Recommend voluntary methods to protect and enhance water quality
- Develop an action plan for restorative and preventative efforts.





Nine Elements of Watershed Plans



- Identify and quantify causes and sources of impairments.
- Estimate expected load reductions following implementation.
- Identify BMP's needed to achieve load reductions and critical areas.
- Estimate needed financial and technical resources.
- Provide a public information/education component that is designed to change social behavior.
- Include a schedule for implementing BMPs
- Identify and describe interim measurable milestones.
- Establish criteria to determine if load reductions are being achieved.





Provide a monitoring component to evaluate the effectiveness of the implementation over time for criteria in number 8.



Regional Criteria

- 1. Develop a vision for watershed land use by evaluating the collection of local comprehensive plans and estimating the cumulative impact on future water quality.
- 2. Set target pollutant-load reductions for impaired waters taking into account both point- and nonpoint sources.
- 3. Consider groundwater protection from both water quality and

water quantity perspectives.

4. Compare municipal codes and ordinances against the US EPA developed Water Quality Scorecard.





Watershed Planning Philosophy

- A bottom up approach
- Create a useful plan with specific problems and solutions (so stakeholders can apply for grant money to implement projects).





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FOC Watershed Plan Timeline

Meeting Agenda
Introductions/
Project purpose
Watershed Plan Goals and Objectives
Watershed Vision
Groundwater Protection
Ordinance Review Exercise
Open Space/
Green Infrastructure Framework
Review of Plan Chapter 1/
Impairments/Ordinance Analyses
Review of Watershed Inventory
Chapter/ FORTRAN (HSPF)
pollutant-load model/Load-reduction
targets



FOC Watershed Plan Timeline

Date	Meeting Agenda
May 2011	Plan recommendations/ Project selection
June 2011	Plan recommendations/ Project selection
July 2011	Plan recommendations/Tech and financial assistance needs
August 2011	Public education components
September 2011	Monitoring and Assessment chapter
October 2011	Implementation schedule/ Measurable milestone and successes
November 2011	IEPA feedback/ Finalization of remaining issues
December 2011	Final draft plan approval/ Next steps



CMAP

How can I be involved?

• Participate in the planning process by attending monthly stakeholder meetings

stakeholder meetings.

- Provide input and information
 - Comprehensive Plans
 - Ordinances
 - Maps



To receive monthly meeting announcements, or for any questions, please contact Tara Neff: 630-428-4500 x 23; tneff@theconservationfoundation.org.