



**The Great Lake Commission's  
Great Lakes Sediment and  
Nutrient Reduction Program**

**Portage and Sandusky River Sediment Plumes (Lake Erie)– 6-24-06**



## Sediment Plumes (Lake Erie)



## Sediment Plumes (Lake Erie)



## Harmful Algal Bloom



## **Objectives:**

- **Minimize off-site damage to harbors, streams, fish and wildlife habitat, recreational facilities, and the basin's public works systems caused by sediment and phosphorus.**
  - **Reduce the on-site damages caused by soil erosion on farms, developments, streambanks and shorelines.**
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## Grant Information

- **Up to three year time frame**
- **Large scale grants up to \$150,000 – 200,000**
- **Small scale (usually site specific) - \$30,000**
- **Twenty five percent match (can be in-kind)**
- **Units of governments and non-profits can apply**
- **Must have an estimated numeric goal of erosion and phosphorus saved**
- **Must have an outreach effort**
- **Funds are on a reimbursable basis**
- **On-line application form**

A scenic view of a river flowing through a dense forest. The river is surrounded by lush green trees and large, dark rocks. The water is white and turbulent as it flows over the rocks. The sky is bright and clear.

# Poplar River Minnesota

Cook County Soil and  
Water Conservation  
District



Interceptor Channel  
along gravel road.

Catch Basin and Stand  
Piping System



# Piping System from interception channels down to Poplar River

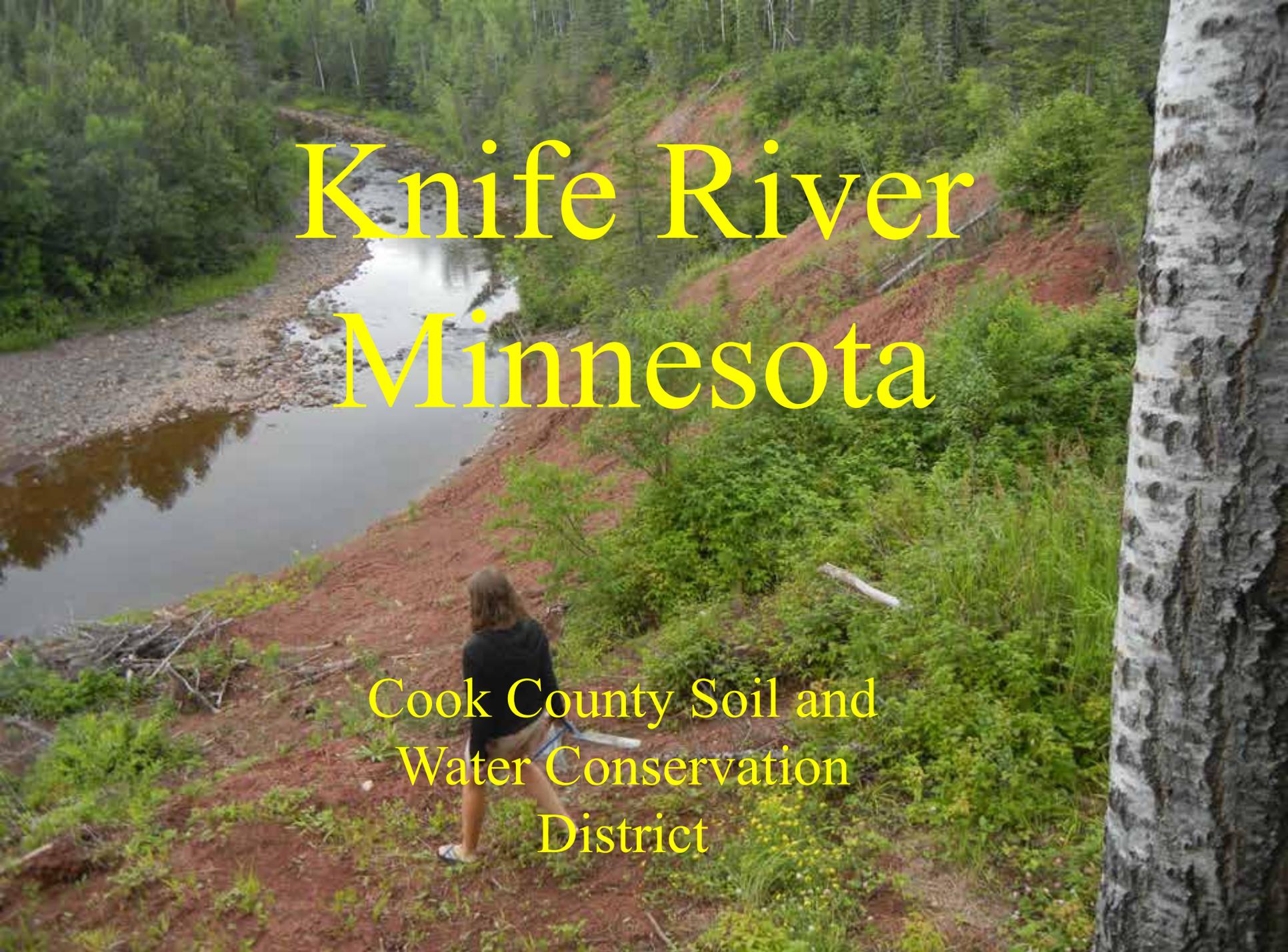


# Piping System from Collection Basin down to Poplar River



36 inch pipe  
with critical  
area  
stabilization  
planting





# Knife River Minnesota

Cook County Soil and  
Water Conservation  
District

Red clay  
streambanks  
undercut by the river.



2012 storm completely  
changed the priority  
areas that were planned  
to be stabilized.



A large, dark-colored bison sculpture stands in a grassy field. The sculpture is positioned in the center of the frame, facing left. It has a thick, textured coat and two sharp horns. The background shows a green field with trees and a clear sky. The text is overlaid on the bison's body.

Addressing AOC  
& TMDL Targets  
Oneida Nation  
Green Bay



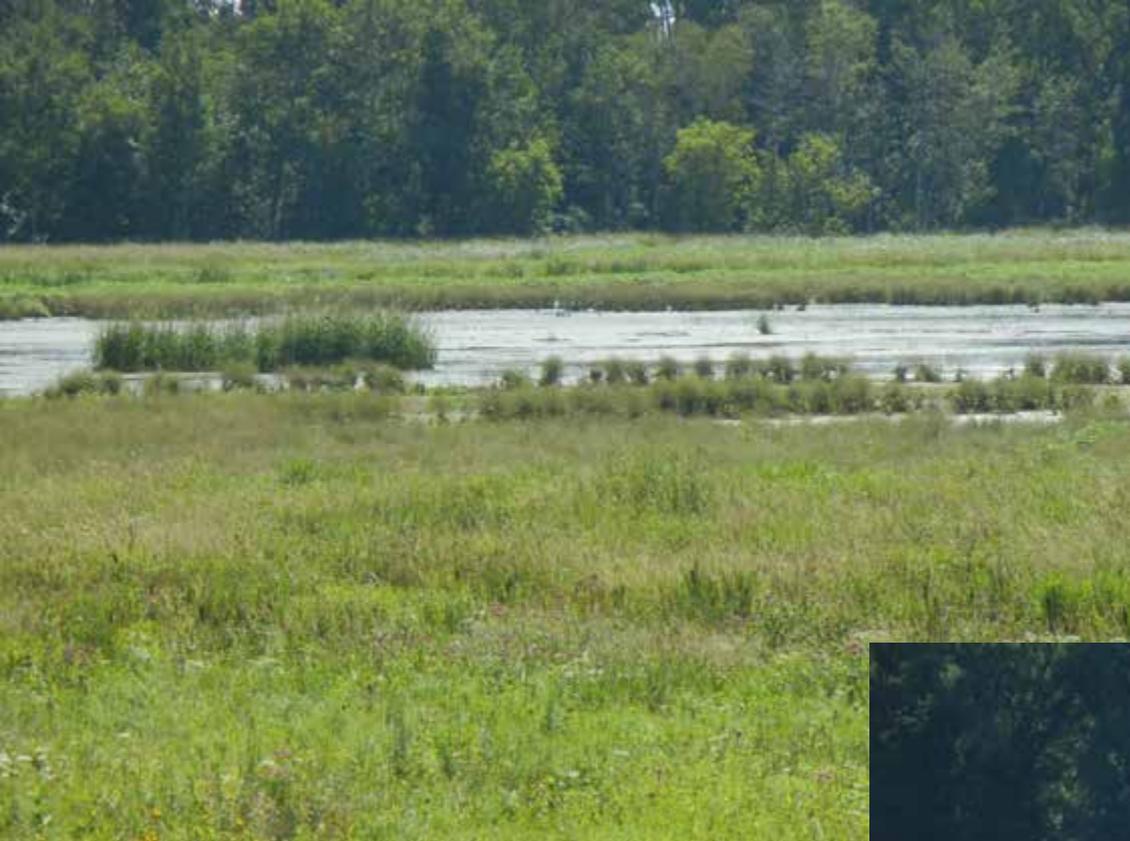
Buffer strips, tree plantings and cover crops.



## Close-up of Tree Planting



Buffer Strip and Cover  
Crop



Converted Cropland to Wetlands (not part of this project but functions a part of the system of practices to protect the river and bay)

Wild Rice planted for future harvest



# **New for 2016**

**The implementation of nutrient management practices for the direct control of phosphorus , especially dissolved phosphorus, will be stressed in the RFP.**

**Innovative and permanent practices will be considered.**

**Innovative practices include:**

- Any effort to incorporate phosphorus fertilizer into the soil with minimal erosion.**
- Reductions or elimination of the application of phosphorus fertilizer.**
- Changing soil chemistry to bind dissolve phosphorus**
- Edge of field and in-stream Phosphorus scrubbers**

**Twenty Five % Match.**

**The program will favor projects in watersheds with the following designation and characteristics:**

- Predominantly agriculture landuse and have extensive drainage systems.**
- Critical areas experiencing severe erosion, rural or urban.**
- Designated by the USEPA GLRI as a critical watershed. In Ohio this would be the Western Lake Erie Basin.**

## **Grant Funding Available\*:**

**Small scale up to \$30,000**

**Watershed scale up to \$200,000**

**\*Amounts subject to change on final approval of the 2016 agreement.**

For Additional Information contact Gary  
Overmier at [garyo@glc.org](mailto:garyo@glc.org) or telephone  
734-971-9135