

# OEHLER — Shoreline Restoration



## PROJECT SPECS

Date Constructed ...  
Summer 2013

Shoreline Protection....80 ft

Buffer Length.....80 ft

Buffer Area.....2,000 ft<sup>2</sup>

Natives Planted.....600

Cost Share Funding 50% of  
project expenses

### Pre-Project Conditions

The Oehler property lies on the north shore of Forest Lake, Lake 1. Ongoing ice and wave action at the shoreline has resulted in a degraded buffer planting and shoreline erosion issues. Mowing of turf grass close to the edge of the shoreline was also resulting in increased shoreline instability. Issues identified by the District during the initial site visit included:

- Active shoreline erosion, undercutting of the shore
- Degraded existing shoreline planting
- Limited plant diversity and non-native invasive species
- Limited wildlife habitat.

**Before  
Spring 2013**



### Post Project Conditions

Ice and wave action along with mowing of turf grass to near the waters edge was causing undercutting of the bank and shoreline instability. To address the issue, the Oehler's worked with Prairie Restorations, Inc. to install 80 linear feet of coir log to stop undercutting of the shoreline. Additionally, the Oehler's removed non-native and undesirable species including turf grass and replaced them with native herbaceous plugs. Coconut fiber blanket was also placed to prevent erosion while the small plants establish.

- Prevented further undercutting of the shoreline through the installation of coir log
- Slowed the flow of stormwater generated from approximately 26,500 square feet of adjacent residential drainage area, removing pollutants before entering Forest Lake, Lake 1
- Non-native plant species and turf have been eradicated from the shoreline and native plant diversity is increased. The increase in root structure will help to hold the soil in place on the shoreline and protect Forest Lake, Lake 1



**After  
Summer 2013**