

# FICENKO & SCHULTZ PROPERTIES



## Pre-Buffer Conditions

The Ficenko and Schultz properties lie at the inlet of Rice Creek into Locke Lake. The site was undergoing active severe erosion along the toe of the slope and the entire sections of the bank:

- Active shoreline erosion due to limited root structure to withstand wave action and animal activity
- Direct conveyance of nutrients and pollution from the property into the lake, increasing algae and unwanted aquatic vegetation blooms
- Limited plant diversity
- Limited wildlife habitat



## PROJECT SPECS

Date Planted ..... Fall 2005  
 Buffer Length..... ~150 ft  
 Buffer Area ..... ~3,000 ft<sup>2</sup>  
 Natives Planted.....~500 plus seed  
 Cost Share Funding ..... \$5,000 in addition to funds provided by the Rice Creek Watershed District



## After Lakeshore Restoration

The toe of the slope was armored with riprap and the bank was re-graded. Boulder vanes were installed to deflect flows from Rice Creek away from the site. Biologs were installed in areas with less severe erosion to further buffer wave action and allow aquatic plants to establish. Finally, live willow stakes and wattles were installed in front of the exposed portion of the bank to reduce erosion and increase stability. The project has many benefits, including;

- Repair active erosion and prevent further problems
- Storm water is slowed and retained as it flows toward the lake increasing infiltration and decreasing input of nutrients and pollutants into Locke Lake
- Plant diversity is dramatically increased and the increase in root structure protects the shoreline from erosion due to runoff and wave action
- Fish and wildlife habitat is increased



November 2005

