

WHITEHILL RESIDENCE—Sunrise River Stream Bank Restoration



Protecting Your Water Resources

PROJECT SPECS

Date Constructed ... Summer/Fall 2011

Shoreline Protection ~323 ft

Buffer Length.....~145 ft

Buffer Area.....~2175 ft²

Natives Planted.....~477

Cost Share Funding 50% of project expenses up to \$3,000.00

Pre-Restoration Conditions

The Whitehill property is adjacent to the Sunrise River just downstream of the Forest Lake Dam. The site was dominated by mown turf grass, reed canary grass, and buckthorn along with significant streambank erosion. As a result, there was:

- Active bank erosion and stream sedimentation
- Direct conveyance of nutrients and pollution from the property into the river, increasing phosphorous loading to downstream Comfort Lake.
- Limited plant diversity
- Limited wildlife habitat



**Before
Summer 2010**



After Restoration

The streambank was stabilized with a combination of bio-logs, erosion control blanket and re-introduction of native plants. The stabilized streambank is designed to withstand the high flow conditions after ice-out and large rainstorms. 477 native grasses, flowers, shrubs, and aquatic plants were planted as part of the project and will provide long-term stabilization of the slope as well as increased habitat for fish and wildlife. The completed project provides for many benefits, including;

- Stopping soil from washing into the river
- Decreased nutrients and pollutants getting into Comfort Lake
- Plant diversity is dramatically increased
- Fish and wildlife habitat is increased

November, 2011

