

Tom & Lynn Harten

Project location:

33106 Xenon Dr NW

Princeton MN 55371

Green Lake

9/29/2021

Shoreline assessment

A site visit took place to evaluate the current condition, identify concerns, and suggest vegetation and stabilization options for their shoreline property.

The shoreline consists of a bank with rocks from a previous stabilization project. There is some vegetation along the shore, mainly native with some spots of reed canary grass. While most of the existing vegetation consists of beneficial native species, high water events, boat traffic and wave action have caused the loss of emergent vegetation leading to erosion at the water edge. The shoreline will be stabilized with willow wattle and deep-rooted native vegetation to protect the shore from erosion and provide habitat for pollinators.

Along the shore there is an ice ridge that creates puddles in the rain season, currently covered by lawn grass, native deep-rooted vegetation will be planted to promote infiltration.

Above the shore there is an upland slope covered on beautiful upland vegetation that provides it with stability and is helping to filter, capture and infiltrate water runoff.







Proposed project

Shoreline buffer: 85 lineal feet – 1068 sq ft

Area 1: 48 ln ft * 13ft wide=624 sq ft. Emergent/wet meadow vegetation.

Area 2: 14ln ft * 12ft wide=168 sq ft. Water access, short vegetation.

Area 3: 23 ln ft * 12ft wide= 276sq ft. Emergent/wet meadow vegetation.

A row of willow wattle will be installed along the shoreline to prevent erosion and protect the shoreline and the new vegetation from waves and ice action until it establishes.

Emergent and wet meadow sedges, flowers and shrubs will be planted on a 13ft wide buffer along the shoreline to protect the soil from erosion and provide habitat for pollinators.

Site preparation

- Consultant will obtain DNR aquatic planting permit. No DNR shoreline alteration permit is required.
- Lawn area and Reed canary grass will be treated with Grass Out Max by owners, prior to planting. Consultant will provide instructions.
- An educational planting workshop will be held where owners and other participants will install willow wattle and wet meadow.

Maintenance

- Water during dry spells the first summer where needed.

Native plants spend the first season forming deep root systems. It will take 2 – 3 seasons for grasses and sedges to fill the area. Emergent plants and prairie/wetland flowers grow quickly and should begin to bloom the first summer.