Natural Solutions to Shoreline Problems on Inland Lakes

A slide show with nine different shoreline case studies.

Enjoy!

Presented by:

MICHIGAN STATE UNIVERSITY EXTENSION
Example 1

Problem: Annual damage from ice push.

Solution: Buffer strip of long-rooted native shoreline plants.
Example 2

Problem: Wave flanking from neighboring sea walls.
Solution: Vegetated bio-log.
Example 2

Spring 2008
Example 3

Problem: Wave flanking from neighboring sea walls.

Solution: Vegetated bio-log with gravel and topsoil fill.

Spring 2006
Example 4

**Problem:**
Undercutting and erosion/lack of shoreline habitat

**Solution:**
Native plantings w/ vegetated bio-log wave breaker.
Example 5

Problem: Lack of shoreline habitat
Solution: Native buffer strip and aquatic plantings w/ biolog wave breaker.
Problem:
Undercutting and destabilization after removal of trees along shoreline.

Solution:
Bioengineered lifts w/ shrubs.
Example 6

Spring 2003

Summer 2003
Example 7

Problem:
Undercutting and destabilization after removal of trees along shoreline.

Solution:
Bioengineered live fascine w/ shrubs.
Problem: Eroding bank after removal of trees along shoreline.
Solution: Bioengineered live crib wall w/ shrubs.
Example 8

Spring 2002
Example 9

Problem: Eroding shoreline due to removal of native vegetation.
Solution: Native plants and seeding into fill protected with erosion control blanket. Coir log wave break.
Thanks for watching!

www.shoreline.msu.edu