

# 22845 E MARTIN LAKE DRIVE, MARTIN LAKESHORE RESTORATION



Lakeshore  
Restoration

## Project Summary

A lakeshore stabilization was completed at the Lucas property located on the east side of Martin Lake. The project corrected active erosion to benefit water quality.

The shoreline was stabilized by installing coir (coconut fiber) logs along the shore. The logs, made of natural materials, provide 5-10 years of protection from wave erosion, during which time they become vegetated and biodegrade. Thereafter, the plants provide shoreline protection. The material is inexpensive, effective, and able to be shaped to the shoreline.

This project stabilized 70 linear feet on Martin Lake, which is a state impaired water and priority for the local watershed organization. Funding was from the landowner and the ACD cost-share program. ACD provided project administration, design services, and project installation.



Biolog installation. October 2022.

## Project Specs

Date Installed ..... October 2022  
Shoreline Length Restored ..... 70 ft.  
Phosphorus reduction ..... 1.3 lbs/yr  
Sediment reduction ..... 1.3 tons/yr

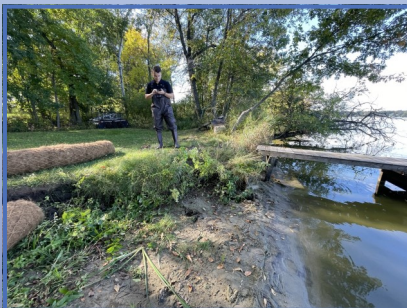
## Project Cost

Materials ..... \$1,264.19  
Construction ..... \$1,136.89  
Project administration, design, and installation were provided by ACD.

## Project Funding

ACD Cost-Share ..... \$1,200.54  
Landowner ..... \$1,200.55  
Total Project Funding ..... \$2,401.08

## Installation Process



**Before:** The shoreline had eroded back ~5 ft in comparison to adjacent forested shoreline, with additional undercutting visible. In addition to loss of real estate, shoreline erosion contributes nutrients that cause poor water quality including algae blooms.



**After:** Coir logs were installed along 70 linear ft of shore to protect against waves & favor long term stabilization by vegetation. Coir logs were installed at an elevation that will intercept most lake water levels. The owners plan to leave a larger unmowed shoreline buffer than in the past.