

Project Description - Over 20 feet of streambank had been lost along a 500-foot section of Slippery Rock Creek due to erosion on Slippery Rock Campground Association property. This erosion increased sedimentation and created an unstable, undercut bank. The increased sedimentation can affect the biota living within the stream by reducing water clarity and destroying stream-bottom habitat.

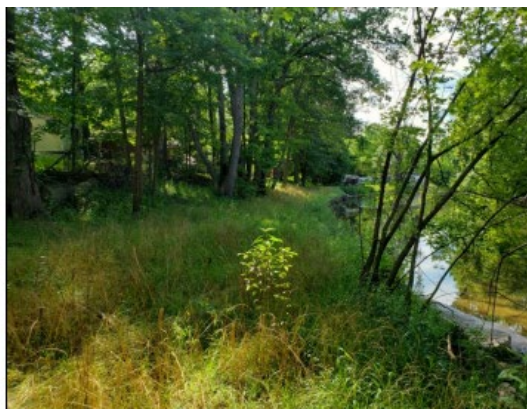
Project Timeframe – December 07, 2017 through December 31, 2020

Project Goals - The Slippery Rock Creek Watershed Conservation Plan, completed in 2011 for the PA Department of Conservation and Natural Resources, lists eliminating streambank erosion as a priority action item. This project implemented a variety of traditional and bioengineering techniques to reinforce the eroding bank including grading; stone, toe protection; rootwads; soil lifts; live-stakes; brush layering; and rolled, erosion control blankets. The use of woody material helped not only to stabilize the slopes but also to provide habitat, shade, and an organic carbon source for fish and macroinvertebrates. In addition to the streambank stabilization, a 50-foot riparian buffer was established to help ensure long-term stability along 600' of stream bank. This riparian buffer, which has been planted with about 1300 willows (live-stakes) and over 250 native trees and shrubs (bare-root), has been designated as a “no-mow” area by campground staff.

Pictures –



BEFORE



AFTER

Project Results - 600 feet of streambank along Slippery Rock Creek was restored reducing the sedimentation load to the stream by over 4,000 cubic feet per year (estimated) and protecting camp trailers located near the bank.

Project Costs - \$125,450 Growing Greener plus an additional \$45,882 in match funds.

Partners - Slippery Rock Watershed Coalition (SRWC); PA Department of Environmental Protection; Allegheny Mineral Corp.; BioMost, Inc.; Slippery Rock Campground Association; Stream Restoration Incorporated.

Contact Information - Slippery Rock Watershed Coalition - sri@streamrestorationinc.org

