

## **Cowanshannock Creek Streambank Stabilization Growing Greener: C990002430 Armstrong Conservation District**

**PROJECT DESCRIPTION:** Severe erosion on Cowanshannock Creek was contributing to sediment pollution in the watershed. Cowanshannock Creek is a Trout Stocked Fishery, so elimination of sediment pollution is important for it to maintain this use. The bank was stabilized using bin blocks and a mix of R-5, 6, and 7 rip rap and live stakes. Rock vanes were installed to direct flow away from the bank. The project timeframe was from 01/01/2021 to 03/31/2022.

**PROJECT GOALS:** The goal of the project was to stabilize a section of Cowanshannock Creek in order to reduce sediment pollution in the watershed.

**PROJECT RESULTS:** This project stabilized 60ft along a severely eroded section of Cowanshannock Creek along the Cowanshannock Trail with concrete bin blocks and a mix of R-5, 6, and 7 rip rap and 2 rock vanes. Additionally, 78 live stakes were planted in the areas disturbed from construction and rip-rap. About 112 tons of sediment per year will be prevented from entering the Cowanshannock Creek Watershed.

### **PICTURES:**



Before Construction



After Construction

**PROJECT COSTS:** Growing Greener Grant: \$93,315; Total Cost: \$113,518.22

**LESSONS LEARNED:** Having a contractor willing to communicate and work with us was key to the successful placement of the blocks for the stabilization and stream structures due to the large unmovable boulders encountered in the stream.

**PARTNERS:** The County of Armstrong was the landowner and provided cash match; Mecal Services, LLC was the Engineer; Joseph C. Puryear Trucking & Excavating, Inc was the contractor; Armstrong Trails provided cash match; Cowanshannock Creek Watershed Association provided cash match and in-kind labor for live stake planting

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