

Smithton Borough Streambank Stabilization Project

Design Features: Riprap, Log Vane Deflectors, Bank Grading, Tree Plantings

Date of Installation: November 2024

Location: Peer Street, 1st Street, Mule Stable Rd
Smithton PA

Client: Smithton Borough

Cost: \$110,410 Growing Greener, \$9,090 Smithton Borough Cash Match, \$5,000 South Huntingdon Cash Match \$4,830 WCD In-Kind Match, \$2,582 Smithton Borough In-Kind Match

Project Partners: Westmoreland Conservation District, Smithton Borough, South Huntingdon Township, Mills Excavating

Project Contact: Hank Bradish, hank@wcdpa.com

Project Specifications

The Westmoreland Conservation District (WCD) partnered with Smithton Borough and South Huntingdon Township to stabilize streambanks along an Unnamed Tributary (UNT) to the Youghiogheny River. WCD implemented the design and installation of green infrastructure best management practices which included 500 feet of streambank stabilization using natural methods. These methods included grading back streambanks to form a 3:1 slope, adding riprap rock protection, and installing log vane deflectors. Sixty trees were also planted along the streambanks to serve as a riparian buffer and provide additional stabilization.



Pre-construction, heavily eroded streambank



*Post-construction, stabilized streambank
with riprap*

Benefits/Performance Measures

Approximately 500 feet of streambank was stabilized meaning that the erosion and resulting sedimentation occurring at the site is no longer as severe. Together, the implementation of grading, rip-rap, log vane deflectors, and a riparian buffer is estimated to reduce the total suspended solids (TSS) in the stream by 10.1 tons annually.

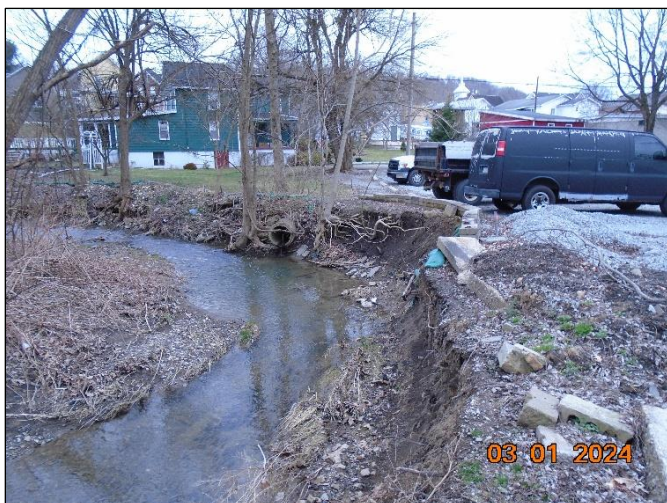
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Pre-construction



Post-construction



Pre-construction



Post-construction