

Hunt Road Streambank Restoration and Culvert Improvements Project

Project Executive Summary

The Little Sewickley Creek Watershed, located in Allegheny County, PA, is a Chapter 93 High Quality – Trout Stocked Fishery designated use stream, as a small, cool, and shallow tributary draining 9.6 square miles to the Ohio River through 18.5 stream miles. Waters within the watershed are currently listed on the 303(d) as Category 5 and considered impaired for aquatic life use by non-point source pollution, with primary cause of sedimentation impairment in the watershed listed as road runoff.

The *Hunt Road Streambank Restoration and Culvert Improvement* project was developed to directly improve water quality in the watershed by addressing conditions along the unnamed tributary to Little Sewickley Creek (ID 99681884) which runs parallel to Hunt Road, a gravel road in the Borough of Sewickley Heights. The project was designed to increase streambank stability along a 300' stretch of impaired waterway beginning approximately 60 ft. downstream of the culvert and extending approximately 240 ft. upstream from the culvert. Two cross vanes, 1 deflector, 4 mud sills, and 5 rootwads were installed along this length of stream. and enhanced with 1200 live stakes. Further, 1000 linear feet (4000 sq. ft) of herbaceous riparian corridor improvements were installed to further reduce sedimentation into the stream and reduce velocity of water entering the stream. The BMP installation and riparian corridor improvements were designed to address both sources of stream sedimentation and improve water quality downstream.

Western Pennsylvania Conservancy and the Pennsylvania Fish and Boat Commission partnered with the Borough to design and installed the prescribed BMP's. Future work will be in partnership with the Allegheny County Conservation District.

Totals project cost was \$28,880.64, including 22,091.24 from the Growing Greener Program, \$2,636.00 in partner match, and \$4,150.40 in in-kind match from the Borough of Sewickley Heights.

Total annual pollutant load reductions: sediment-17.25 T, Nitrogen-58 lbs., and phosphorus-52 lbs..

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This is a representative photo of conditions before (left) and after (right) in-stream BMP's were installed and herbaceous and woody plantings were completed.