

FOX RUN RESTORATION AREA - PHASE II



A 300-1300 gpm net-alkaline iron-bearing underground mine discharge flowing into Fox Run prior to construction.



Settling pond/aerobic wetland complex two years after the construction of the system.

Location: Richard & Barbara Kish property, Jackson Twp. and Lake Twp., Mercer County, PA

Constructed: 2008

Project Description: A 1/2-acre, naturally-functioning, aerobic wetland/settling pond complex was constructed to passively treat the largest abandoned mine discharge on Fox Run, which emanates from an abandoned underground mine. Flows from the abandoned mine range from 300-1300 gallons per minute with significant loadings of iron. In addition, this project involved the restoration of 250 feet of riparian area previously disturbed by mining and other activities. BioMost, Inc. provided design, permitting, construction oversight, planting, and operation and maintenance services for the passive treatment system.

Environmental Benefit: Over 700,000,000 gallons of AMD are treated every year removing approximately 20,000 lbs of iron from Fox Run. In conjunction with Fox Run Phase I PTS, this project has helped improve 2½ miles of Fox Run to its mouth. Fox Run is the only major tributary severely affected by abandoned mine drainage in the Shenango River Watershed. These two projects are the first steps to restore Fox Run to a Trout Stocked Fishery and remove the stream from the states Impaired Waters List.

References:

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Shawn Hedglin, Mercer Co. Conservation District, 34 Avalon Court, Suite 300, Mercer, PA 16137 (724) 662-2242

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