

**PROJECT DESCRIPTION:** The Westmoreland Conservation District partnered with Irwin Borough to improve a recreational area known as Irwin Park that serves the community. This project stabilized approximately 450 feet of eroding streambank along an unnamed tributary (UNT) to Tinkers Run within the Turtle Creek watershed. This stabilization prevents additional sedimentation to the stream. This stabilization will also stop the stream from encroaching on a paved walking path in the park. The banks were stabilized by grading back steep banks and placing rip-rap, as well as installing 10 single log vane deflectors. The stream is also impaired by both parking lot and road runoff. Two infiltration swales were installed in the park's large parking lot area and a Redi-Rock wall with an infiltration area was installed near the small parking lot to decrease the amount of stormwater runoff carrying sediment and pollutants to this waterway.

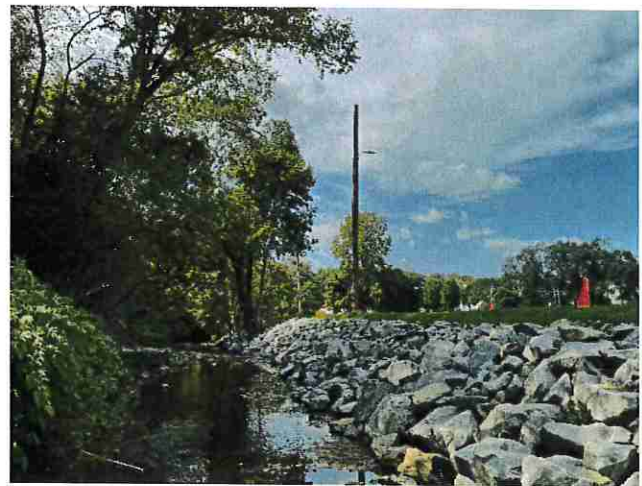
**PROJECT GOALS:** The purpose of this project is to reduce accelerating erosion along the banks of a UNT to Tinkers Run by placing log vane deflectors, rip-rap, and grading back steep banks where possible. The project will also decrease stormwater runoff from impervious areas from entering the stream. Trees and shrubs were planted along the streambank to restore a native riparian buffer.

**PROJECT RESULTS:** Approximately 450 feet of streambank was stabilized. Two infiltration swales were installed to capture storm water runoff from a 22,000 square foot parking lot. Based on estimated pollutant load reductions, this project's installed Best Management Practice's will stabilize and capture a minimum of 10 (tons/yr.) of sediment, 36.25 (lbs/yr.) of Nitrogen, and 31.60 (lbs/yr.) of Phosphorus annually.

#### BEFORE & AFTER PHOTOS:



*Before: eroding and vertical banks causing sediment to enter the stream.*



*After: banks graded back to a stable slope and rock added to the toe of the slope.*

**PROJECT COSTS:** \$85,756.00 of Growing Greener nonpoint Source Grant funds were used with a cash match of \$11,220.50 from the Richard King Mellon Foundation. Additional in-kind and cash match of \$12,845.17 from WCD and Irwin Borough. The total cost of this project is \$109,821.67.

**LESSONS LEARNED:** Partnerships and community support are vital in working together towards a common goal and vision.

**PARTNERS:** Westmoreland Conservation District, Irwin Borough, and the Richard King Mellon Foundation.

**CONTACT INFORMATION:** Westmoreland Conservation District, Chelsea Walker at (724) 837-5271