

## Hempfield Park Stormwater Retrofits

**Design Features:** Two new rain gardens totaling 900 ft<sup>2</sup>, 400 feet of streambank stabilization, 40,000 ft<sup>2</sup> of native pollinator mix, 23 tree plantings, a concrete ramp for stream access, and an educational sign

**Date of Installation:** Fall 2023

**Location:** Hempfield Park, Greensburg PA

**Client:** Hempfield Township

**Cost:** \$52,757 Katherine Mabis McKenna Foundation, \$8,130 Hempfield Township Cash Match, \$3,265 WCD In-Kind Match.

**Project Partners:** Westmoreland Conservation District, Hempfield Township, Katherine Mabis McKenna Foundation, and Mills Excavating



*Stabilized streambank by means of bank and dumped rock protection*

### Project Specifications

The Westmoreland Conservation District (WCD) partnered with Hempfield Township to control stormwater at Hempfield Park and to stabilize streambanks along an unnamed tributary to Brush Creek that also flows through the park. Some of the Best Management Practices (BMPs) installed include: rain gardens to control stormwater that previously flooded walkways and pavilions, tree /shrub plantings to help with infiltration, and streambank grading with dumped rock protection to reduce erosion and sedimentation. Almost an acre of native wildflower mix was planted to provide habitat for pollinators and to improve aesthetic value to the park. A concrete access ramp was also constructed near the playground to safely allow children to access the stream. An education sign was installed beside the ramp to allow park visitors to learn about stream biology and the importance of protecting streambanks.

### Benefits/ Performance Measures

The purpose of this project was to reduce flooding and sedimentation in the tributary to Brush Creek. The stormwater controls implemented in this project are actively reducing flooding, stormwater runoff, and improving water quality in the stream. Hempfield Park visitors will also have the opportunity to learn about stormwater management and the importance of streambank protection by visiting the new education sign.



## Hempfield Park Stormwater Retrofits

*Before Construction*

*After Construction*



*Streambank stabilization by means of bank grading and dumped rock protection*



*New rain garden with shrub plantings*



*New concrete ramp to allow for educational stream access*