

ROCK CREEK STREAM BANK STABILIZATION

STATE PROGRAM: Kansas Department of Environment

ASSISTANCE RECIPIENT: City of Westmoreland

ASSISTANCE AMOUNT: \$67,000



PROJECT DESCRIPTION

In May of 2019, storm events in the Westmoreland Rock Creek Watershed produced approximately 8-12 inches of rain. This event resulted in flooding and erosion of Rock Creek's streambank to within 20 feet of the City of Westmoreland's wastewater lagoon site, which is adjacent the Creek. To protect its wastewater lagoon facilities and prevent further erosion in the Creek, the City developed a streambank reinforcement and nonpoint source sedimentation plan. The City collaborated with the Natural Resource Conservation Service, which designed the Rock Creek Stream Bank Stabilization project and gave the City a \$200,000 grant for the project. The Kansas Water Pollution Control Revolving Fund provided an additional \$67,000 in financing for the remaining project costs. The project removed debris and stabilized the Creek's streambank where previous erosion threatened the wastewater lagoon site. Rock riprap, earth fill, and geotextile materials were placed along the streambank to stabilize it to prevent further erosion. The project increases the integrity of the City's wastewater lagoons and protects the Creek's water quality from future erosion and sedimentation.

To read more about this case study, please visit <https://www.epa.gov/system/files/documents/2022-02/2021-pisces-compendium.pdf>.