

**Fox's Stormwater Detention Improvements**  
 Growing Greener, Grant Document Number: C990002519  
 Sponsor: Westmoreland Conservation District

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**PROJECT DESCRIPTION:** Fox's Stormwater Detention Improvements project implemented the design and installation of green infrastructure Best Management Practices which included a vegetated swale, stormwater detention basin, and tree plantings. This project focused on controlling excess runoff that toppled over the nearby channel in heavy rain events, and flooded the Fox's Pizza distribution facility. The swale and detention basin will reduce flooding, prevent sedimentation and improve water quality to Turtle Creek.

**PROJECT GOALS:** The purpose of this project was to reduce flooding and sedimentation to Turtle Creek and provide support to the MS4 community of Murrysville through the implementation of green infrastructure projects. The goal was to construct stormwater controls at the Fox's Pizza distribution facility that will help retain stormwater and improve water quality.

**PROJECT RESULTS:** A vegetated swale, and detention basin were constructed. Trees were also planted and a concrete block wall was installed to divide the parking lot and stormwater detention basin. During large rain events, pollutants are successfully being filtered before they reach Turtle Creek.

| Best Management Practices                 | Storage Volume         | TSS per year | TP per year | NO3 per year |
|---|------------------------|--------------|-------------|--------------|
| Fox's Detention Basin and Vegetated Swale | 10,676 ft <sup>3</sup> | 28 ton/year  | 60 lbs/year | 61 lbs/year  |

**PHOTOS:**



(Before) Fox's Pizza lawn prone to flooding



(After) Detention basin and swale

**PROJECT COSTS:** \$97,633 Growing Greener, \$17,350.49 In-Kind Match from project partners. Total project cost: \$114,983.49.

**LESSONS LEARNED:** Constant communication between the contractor and landowner is crucial for a successful project.

**PARTNERS:** Westmoreland Conservation District, Fox's Pizza, Elite Coach, Westmoreland Heritage Trail, and Westmoreland County Parks.

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