

**First Presbyterian Church of Murrysville Stormwater Retrofit Phase 2**  
**Growing Greener, Grant Document Number: C990002516**  
**Sponsor: Westmoreland Conservation District**

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**PROJECT DESCRIPTION:** The First Presbyterian Church of Murrysville Stormwater Retrofit Phase 2 project implemented the design and installation of green infrastructure Best Management Practices which included a stormwater conveyance channel and replacement pipe to control urban stormwater runoff. Phase 2 expands upon the Phase 1 project which included the installation of a detention basin and forebay. The channel and pipe replacement will reduce erosion and sedimentation to Haymaker Run in the Turtle Creek Watershed and ensure safe passage of stormwater.

**PROJECT GOALS:** The purpose of this project was to reduce erosion and sedimentation and provide support to the MS4 community of Municipality of Murrysville through the implementation of green infrastructure projects. The goal was to create a permanent connection for stormwater conveyance between the First Presbyterian church parking lot and existing stormwater basin.

**PROJECT RESULTS:** A rock lined channel and pipe replacement were implemented to provide proper stormwater conveyance from the church parking lot to the existing stormwater basin.

BMP	Location	Acres managed	TSS per year	TP per year	NO3 per year
Existing Detention Basin and forebay	Medic One of Murrysville	5 ac	1,470 lbs	2.2 lbs	1.2 lbs

**PHOTOS:**



**(Before)** Hillside where channel was to be installed



**(After)** Hillside with installed channel

**PROJECT COSTS:** \$29,820.00 Growing Greener, \$14,390.00 partners' match.

**LESSONS LEARNED:** Existing N-12 pipe was beginning to deform due to a lack of proper fill and compaction. Any pipe installation requires proper fill and compaction.

**PARTNERS:** Westmoreland Conservation District, First Presbyterian Church of Murrysville

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