

Conewago Creek Stream Restoration
C990000736
Londonderry Township, Dauphin County, PA

PROJECT DESCRIPTION

This grant funded the engineering and construction for restoration of the Conewago Creek, including bed and bank stabilization, floodplain re-connection, removal of legacy sediments, riparian buffer plantings, and development of an operation and maintenance plan.

PROJECT GOALS

The goal of the project was to target a very eroded portion of the Conewago Creek for full floodplain restoration, stream restoration, wetland restoration, and legacy sediment removal. The goal was to address sediment and nutrient reduction needs for the Municipal Separate Storm Sewer System (MS4) permit and the Chesapeake Bay Pollutant Reduction Plan. This goal was accomplished.

PROJECT RESULTS

The stream restoration is projected to achieve 1,503,411 lbs/yr of sediment load reduction, 3,489 lbs/yr of phosphorus load reduction, and 13,517 lbs/yr of nitrogen load reduction. There are three phases of construction for the full permitted project currently, which have all been completed. Load reduction calculations for the Conewago Creek Floodplain Restoration project were developed using the procedures established in A Unified Guide for Crediting Stream and Floodplain Restoration Projects in the Chesapeake Bay Watershed (Wood, Schueler and Stack, 2021). This restoration activity is anticipated to have a significant improvement to habitat for wildlife along the stream corridor throughout the project footprint.

PICTURES

Pre-Construction



Post-Construction



PROJECT COSTS

Our spending came in even with the budget request. The total amount disbursed was \$738,752, which was the amount of the grant contract.

LESSONS LEARNED

This project was a good lesson in the ability of multiple funding partners to come together to achieve a regional benefit. Since the historic floodplain was significantly wider than anticipated, cost estimates increased dramatically, and additional funding was secured from other grants. A wide variety of funding partners were able to contribute to the success of the overall Conewago Creek Stream Restoration project.

PARTNERS

Herbert, Rowland & Grubic, Inc. – Construction administration, grant administration, and engineering support
Landstudies, Inc. – Construction observation and engineering support

CONTACT INFORMATION

Monique Dykman - mdykman@londonderrypa.org
MS4 Environmental Specialist

Londonderry Township
783 S. Geyers Church Road
Middletown, PA 17057
(717) 944-1803