

GREEN MEADOWS STREAMBANK STABILIZATION CONSTRUCTION

MOUNT JOY TOWNSHIP, LANCASTER COUNTY

DEP GROWING GREENER GRANT PROJECT SUMMARY

The upper reaches of the Conoy Creek located in Mount Joy Township are impaired by a combination of pollutants from agricultural runoff and stormwater runoff surges from storm sewers draining to the waterway. Mount Joy Township partnered with the Green Meadows Mobile Home Park community to address the issue of eroding streambanks that affect their residents and adjacent landowners. Remedying those specific concerns also plays a role in the larger objective of restoring unattaining waterways in the Chesapeake Bay watershed.

A BANCS assessment conducted during the project's design and engineering process estimated a reduction of 34 tons/year of sediment, 308 pounds/year of nitrogen, and 102 pounds/year of phosphorus from the waterway. The Township's environmental engineering consultant, LandStudies, Inc. is performing a post-construction field evaluation to refine those pollutant reductions. Despite the vegetation, trees, and shrubs not having adequate time to fully take hold, birds and deer are regularly seen in the area. Additionally, a mud sill and rock toe were installed to help stabilize the new streambanks and create better aquatic habitat.

Contractor Flyway Excavating successfully completed the project within four months with construction oversight provided by LandStudies to ensure proper execution and avoid conflicts with neighbors. The competitive bidding process produced a construction contract of \$212,800, which was well under the \$292,792 estimated at the time of application to the Growing Greener program. Mount Joy Township is pleased to say the project was completed on time and on budget without any significant on-site issues due to the strong coordination between contractor and designer.



Conoy Creek before restoration



Conoy Creek immediately after restoration