

**Project Description** - The Alliance for the Chesapeake Bay is partnering with Donegal Trout Unlimited, the Lancaster County Conservation District and the US Fish and Wildlife Service to support the completion of a major stream restoration project on the Esh farm, an Amish dairy farmer located in the Conowingo watershed in southern Lancaster County.

**Project Timeframe** – October 01, 2021 through June 30, 2023

**Project Goals** – The following loads are estimated to be reduced via installation of this project: Sediment: 225 tons annually and Nitrogen and Phosphorus reductions will be calculated for the final report utilizing WikiWatershed.

**Pictures** –



**Project Results** – Design and installation occurred for this project, resulting in the implementation of 2,500 ft of streambank stabilization, 1100 linear feet of access road/animal trail, 4530 linear ft of livestock exclusion fencing, 4.5 acres of riparian buffer planting, and an improved manure management plan for the operating farmer. During the life of the project, Alliance also built a heavy use area and manure storage for an adjacent farm, along a tributary to this section of the Conowingo. A four-acres buffer now lines the tributary. Overall work as performed as part of corporate conservation supply chain initiatives with Maryland Virginia Milk Producers Cooperative Association. Collectively, the project has made a significant impact on the local watershed and supports a number of Lancaster County- based clean water initiatives.

**Project Costs** - \$321,635 EPA Section 319(h) plus an additional \$38,000 in match funds.

**Partners** – Alliance for the Chesapeake Bay, Lancaster County Conservation District, and Partners for Wildlife Foundation for California University of PA.