

Project Description - The Donegal Chapter of Trout Unlimited, Conowingo Creek – David Phillips/Mike Janssen project site was chosen to undergo a stream restoration to correct erosional problems that created steep eroded streambanks over time. The project included the correction and stabilization of the steep, eroded streambanks by using fish habitat enhancement structures to improve in-stream fish habitat while also reducing future sedimentation issues within the Conowingo Creek watershed. This project connected other stream restoration work within the Conowingo Creek watershed which provides greater environmental benefit by providing continuous fish habitat and greater nutrient filtering capacity.

Project Timeframe – June 15, 2019 through October 31, 2019.

Project Goals - Stabilization of steep, eroded streambanks and the installation of fish habitat structures, resulting in the estimated loading reductions based on the MS4 Best Management Practices Default Rates are as follows: Sediment: 53,856 lbs/yr Phosphorus: 81.6 lbs/yr Nitrogen: 90 lbs/yr

Pictures –



Project Results – The total length of stream that was restored was approximately 1,200 feet. In addition to the planned restoration, one additional rock deflector and several boulder clusters were added with additional material left after construction. The boulder clusters were placed downstream of Saw-Tooth Rock Deflectors #1-5, and the rock deflector was placed between Rock Deflector #14 and Mudsill #4 on the eastern bank. Flow separation around the boulder clusters creates eddies that create excellent habitat for fish, and a change in the stream substrate creates greater diversity within the channel.

Project Costs - \$135,365 EPA Section 319(h).