

Lehigh Valley Greenways Conservation Landscape **SUCCESS STORY**

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C2P2-25-LVG25.13

Johnston Preserve Stormwater Management

SUMMARY

The Friends of Johnston transformed a stormwater flooded fallow farm field into a beautiful wet meadow with marsh and trails. Our summer camp students (aged 6- 14) built an observation dock, bird blind, boardwalk and scientific investigation station. The students showed their knowledge with interpretive signage about the marsh and the plants and animals that live there. The area is now a wonderful addition to the nature education center and new habitat for our animals



CHALLENGE

The site is flooded by stormwater coming from a 1.2 square mile urban area including a state road that overflows onto the property causing erosion, siltation and contamination of the drainage ditch that leads directly into the Monocacy Creek. We needed to develop a plan that would stabilize the area and the outflows while creating habitat. We had to meet with multiple municipalities, engage a design and engineering team to create a plan and meet DEP

FUNDING

Grant Award:
\$7,500.00

Match:
\$7,500.00

Total Project Cost:
\$15,000.00

PARTNERSHIP IS KEY

BASD- implementation
Summer Camp
Girl Scouts
Plantique- landscape design
Highland Hills Nursery
Kind Earth Growers
ORE
Keystone Engineering
Consultants



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Preserving Our Past to Serve Our Future



SOLUTION

The marsh restoration project served not only to mitigate stormwater and create habitat, but also as a hands-on project to teach students first-hand about the sources of stormwater and the concepts of design, installation pollutants. The naturalized marsh wetland serves to cleans, contains and mitigates How your project filled this need

RESULTS

FOJ restored the historic wetland with stabilization of erosion channels and installation of over 4100 native wetland plugs, 150 native trees and shrubs, created a Student Conservation Corps to continue to monitor and care for the marsh. We have designed a monitoring program to quantify the amount of sediment and pollutants prevented from entering the Monocacy Creek. The summer camp students built an observation deck, bird blind. The Scouts built and installed 30 nest boxes and bat houses and created a monitoring App and 20 bat houses, meteorologic investigation station.,



Contact



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Flooded Field 2020



Marsh 2021



reverse

Marsh Observation Deck 2021