

## **Red Clay Stream Restoration at Anson B. Nixon Park**

**Growing Greener Grant #201912203232**

**Kennett Area Park Authority (KAPA)**

### Project Description

This project included construction and riparian buffer plantings that would complete the two-phase restoration of Anson B. Nixon Park. Construction included streambank grading, a dam removal, and installation of 14 rock vanes, 2 double-throated cross vanes, 14 root wads, 1 mud sill, 5 toe rock sections, 1 log vane, and 1 rock deflector. The riparian buffer planting included 70 trees and shrubs, 300 live stakes, and native meadow plantings along both East Branch Red Clay Creek and one of its tributaries.

### Project Goals

The goal of the overall project was to improve water quality, create aquatic and riparian wildlife habitat, and to minimize streambank erosion on the Upper East Branch Red Clay Creek and one of its unnamed tributaries within Anson B. Nixon Park. This goal was accomplished through construction along the unnamed tributary to East Branch Red Clay Creek and riparian buffer plantings.

### Project Results

This grant funded the construction and riparian buffer plantings included in Phase II of this project as well as supplemental plantings in the Phase I area. The total Phase I and II stream restoration project will improve water quality through reducing pollution to the stream by approximately 201,287 lbs/yr of sediment, 336 lbs/yr of nitrogen, and 305 lbs/yr of phosphorus. As the riparian buffer plantings grow, they will provide better riparian habitat.

### Pictures



### Project Costs

\$203,514.00 Growing Greener Grant

### Lessons Learned

Communication and willingness to adapt to change were key to the success of the construction portion of the project. These two factors allowed the team to adjust the plan to address tree damage onsite due to invasive species and the removal of a dam that was in disrepair. The team worked together to keep as much of the park open to visitors as possible while keeping worker and environmental safety a top priority.

### Partners

Project partners included Kennett Area Park Authority, Brandywine Red Clay Alliance, Kennett Township, Borough of Kennett Square, Pennsylvania Department of Environmental Protection, National Fish and Wildlife Foundation, and Clauser Environmental, LLC. Flyway Excavating, Inc. was the contractor.

### Contact Information

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