

# Fox Run Floodplain Restoration – Project Summary

Grant Project Number: C990000647

Grantee: Dover Township

November 20, 2020

## Project Description

The Fox Run Floodplain Restoration restored the floodplains of two unnamed tributaries to Fox Run located in in Dover Township, York County, Pennsylvania on a former golf course that is now township property and the location of a proposed park. The project consists of approximately 27,000 CY of legacy sediment removal and floodplain restoration along 3,440 linear feet (LF) of degraded stream channel.

## Project Goals

The purpose of the floodplain restoration project was to restore the floodplain to historical ecological conditions as closely as possible while accommodating existing site constraints. The approach included removing the legacy sediment impairment from the floodplain, creating an anastomosed channel system well-connected to the historic floodplain, and establishing native vegetation.

## Project Results

Impaired Stream Restored – 3,340 LF

Wetlands Created – 4.52 AC

Legacy Sediment Removed – 27,000 CY

Annual Sediment Reduction – 49,680 LBS/YR

Annual Nitrogen Reduction – 630.53 LBS/YR

Annual Phosphorus Reduction – 73.83 LBS/YR

## Lessons Learned

The Township's commitment to a design-build approach was integral to the project's success by allowing the effort to be carried out in the most effective and efficient manner. The selectively bid excavation sub-contractor helped achieve a competitive project costs while ensuring work was completed by a highly qualified excavator with experience in restoration and fluvial systems. Many of the problems encountered would have been likely to result in project delays, costly change-orders, or inferior implementation if not for the thorough communication and project team cohesion achieved through design-build implementation.

## Partners

Dover Township, LandStudies, Inc., PA Dept of Environmental Protection Growing Greener, York County Planning Commission, C.S. Davidson Inc, and YSM Landscape Architects

## Contact

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Figure 1: Fox Run Mainstem and Confluence (Before)



Figure 2: Fox Run Mainstem and Confluence (After)