

GRAHAM PARK STREAM & WETLAND PROJECT



Above: A portion of the severely eroded bank along Brush Creek prior to construction. Approximately 1000 feet of stream bank was unstable causing severe erosion during rain events. Flooding occurs frequently within the Brush Creek watershed.



Above: Rootwad revetments, rock vanes, and permanent erosion control blanket were used to stabilize the bank. In addition, over 4100 trees and shrubs were planted along the bank.

Left: One year after construction was completed.

Location: Cranberry Township, Butler County, PA
(Dicks Sporting Goods Sportsplex – Graham Park)

Constructed: 2008

Project Description: This project involved the restoration of approximately 1000 feet of severely eroding stream bank along Brush Creek. A combination of traditional and bioengineering techniques were used to reinforce the bank including grading, rootwad revetments, rock vanes, rolled erosion control blankets, and native plantings. Another 500 feet of stream bank was restored with native plantings. A total of over 7,000 shrubs and trees were planted along the streams. In addition, a 1.35 acre wetland was constructed and planted for mitigation of impacts from the construction of the park complex. Over 50,000 trees, shrubs, and herbaceous plants were placed within the wetland. BioMost, Inc. provided planting and construction oversight services for this project.

Reference:

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Above: Photo of the wetland prior to final grading.



Above: Over 50,000 herbaceous plants and shrubs were planted within the mitigation wetland. Flags were used to delineate areas previously planted.



Right: Mitigation wetland one year after construction was completed.



Placement of a rootwad along the bank of Brush Creek.



Over 4100 trees and shrubs were planted along Brush Creek. Flagging tape was tied to each plant to assist future monitoring efforts of the designer.