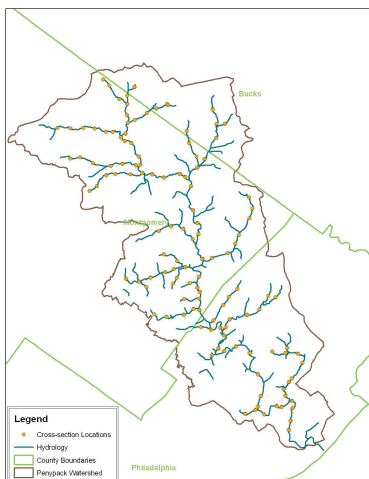


Fluvial Geomorphologic Assessment of Pennypack Watershed

Sampling/Monitoring Project

Pennypack Watershed



Contact: Marc Cammarata
215.685.4948
marc.cammarata@phila.gov

Status: Planning-In Progress

Partners:

Pennypack Watershed Partnership (PP)

Philadelphia Water Department

Fluvial Geomorphologic Assessment of Pennypack Watershed...

A geomorphologic stream survey of Pennypack Creek took place in the summer of 2005 and involved walking the entire length of the main stem and its tributaries, approximately 50 miles, to record specific information about the channel and surrounding habitat. One representative stream channel cross section was measured per reach. 128 reaches were surveyed with most reaches less than 2000 feet in length. Measured field data was compiled to determine stream channel types for each reach and to help evaluate channel stability. Qualitative habitat data was collected and used to determine what types of habitat are adjacent to the stream channel. Both the measured and qualitative data were evaluated for correlations between the natural and urbanized environment.



Benefits:

- The study will aid in the analysis of flow patterns within the Pennypack Watershed which will allow for the conceptual planning of restoration projects. The goal of these projects will be to mitigate the effects of storm flow on the stream by decreasing the erosive effects of the stormwater, decreasing the quantity of water that reaches the stream, and stabilizing and restoring the banks using bioengineering techniques.
- The study will provide data that will be used in developing an approach for the restoration of Pennypack Creek with an emphasis on hydraulic sustainability, enhancement of riparian habitat, improved aesthetics, and biological improvement.



Clean Water.....
Green City
www.phillyriverinfo.org

