

UT Beaver Creek Restoration

Location:	Apex, NC
Date Completed:	2016
Scope of Work:	800 linear feet of stream restoration for erosion control
Engineer:	Jennings Environmental PLLC, Greg Jennings, PhD, PE, greg@jenningsenv.com
Contractor:	Wright Contracting LLC, Joseph Wright, joseph@wright-contracting.com
Partners:	Town of Apex, NC
Fees:	\$40,000 Design/Build with Wright Contracting as prime contractor to Town
Funding Source:	Town of Apex, Wake County SWCD
Project Owner:	Town of Apex, James Misciagno, james.misciagno@apexnc.org

The UT Beaver Creek Restoration Project was implemented in 2016 to improve water quality and control erosion around a sewer line in the Cape Fear River Basin. Before the project, streambanks were eroding due to excessive near-bank shear stress, channel incision due to headcutting, and poor riparian vegetation. Channel instability was threatening to undermine the sewer line and causing backyard fences and trees to collapse.



The restoration project includes boulder and log grade-control steps to maintain channel bed elevation and native riparian plants to strengthen soil resistance to erosion. The project serves as a demonstration site for urban stream stabilization in a confined stream corridor.



Before and after photos document stream stability improvements immediately following construction.