

East Prong Roaring River Restoration

Location:	Stone Mountain State Park, Traphill, NC
Dates:	2017-2018
Scope of Work:	500 linear feet of stream and floodplain restoration
Engineer:	Greg Jennings, PhD, PE, Jennings Environmental PLLC, Asheville, NC
Contractor:	North State Environmental, Inc., Winston-Salem, NC
Partners:	Resource Institute, Trout Unlimited, Zink Environmental PLLC
Fees:	\$20,000 Engineering and Permitting \$75,000 Construction and Planting
Funding Source:	NC Clean Water Management Trust Fund, NC Division of Water Resources
Project Owner:	NC Division of Parks and Recreation, Marshall Ellis, marshall.ellis@ncparks.gov

The East Prong Roaring River Restoration Project was implemented in 2017 to improve water quality, trout habitats, and recreational fishing opportunities on public property in the Yadkin River Basin. Before the project, river banks were eroding due to excessive near-bank stress and heavy use by anglers. Aquatic habitats were poor due to the rapid down-valley meander migration, unstable riffle-pool sequence, and poor riparian vegetation.



The natural channel design project includes channel realignment to create stable morphology and bankfull floodplain connection, wood toe revetments, streambank bioengineering, native riparian buffer, and in-stream boulder and log structures for hydraulic energy management and aquatic habitat enhancement. The project serves as a long-term demonstration site for ecosystem restoration, recreation, and education. The stream is heavily used by anglers and is used by Trout Unlimited and others to educate youth about natural resource stewardship.

