



Project Team

Project Funded by National Fish and Wildlife Foundation Grant



Technical Lead Restoration Design



Project Manager



Endangered Species Propagation



Sediment Transport Analysis



Geotechnical Engineer Demo Design



Demolition and Restoration Construction

Hoosier Dam / Woody Dam

- Chatham County, NC
- Built in 1922
- Hydroelectric dam
- Concrete and buttress dam with hydroelectric powerhouse
- 235 feet long, average height 25 feet.
- Impounds >16,000 LF Rocky River and >2,000 LF tributaries

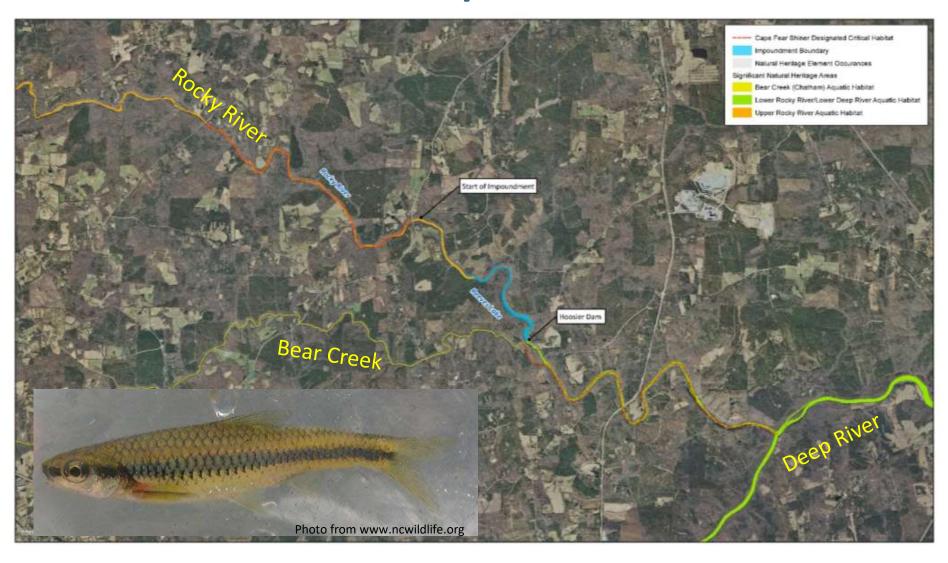






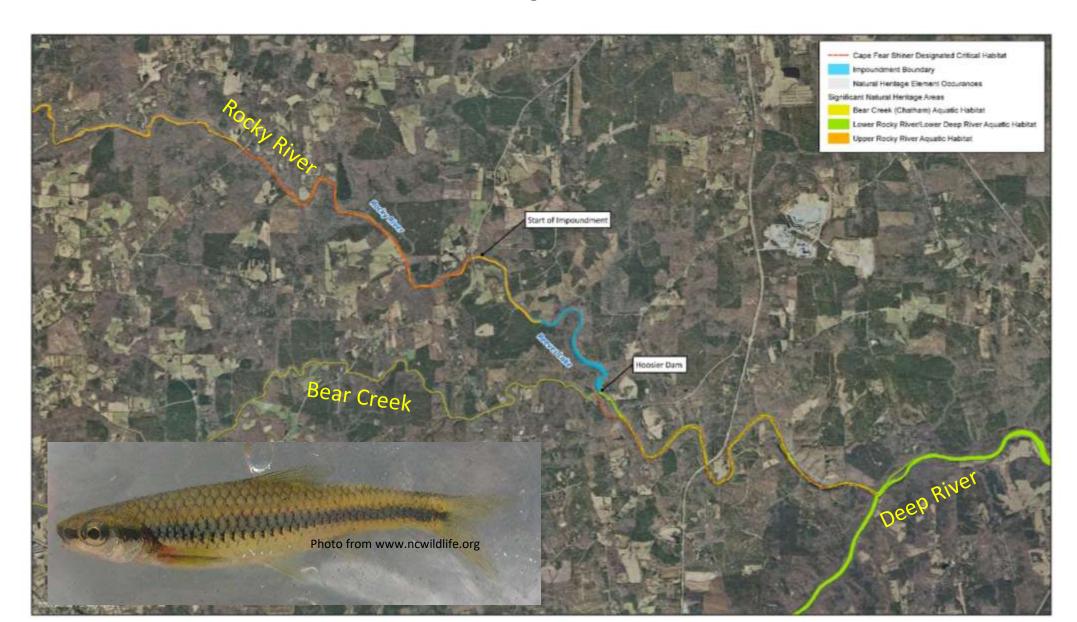


Critical Habitat Area for the Cape Fear Shiner





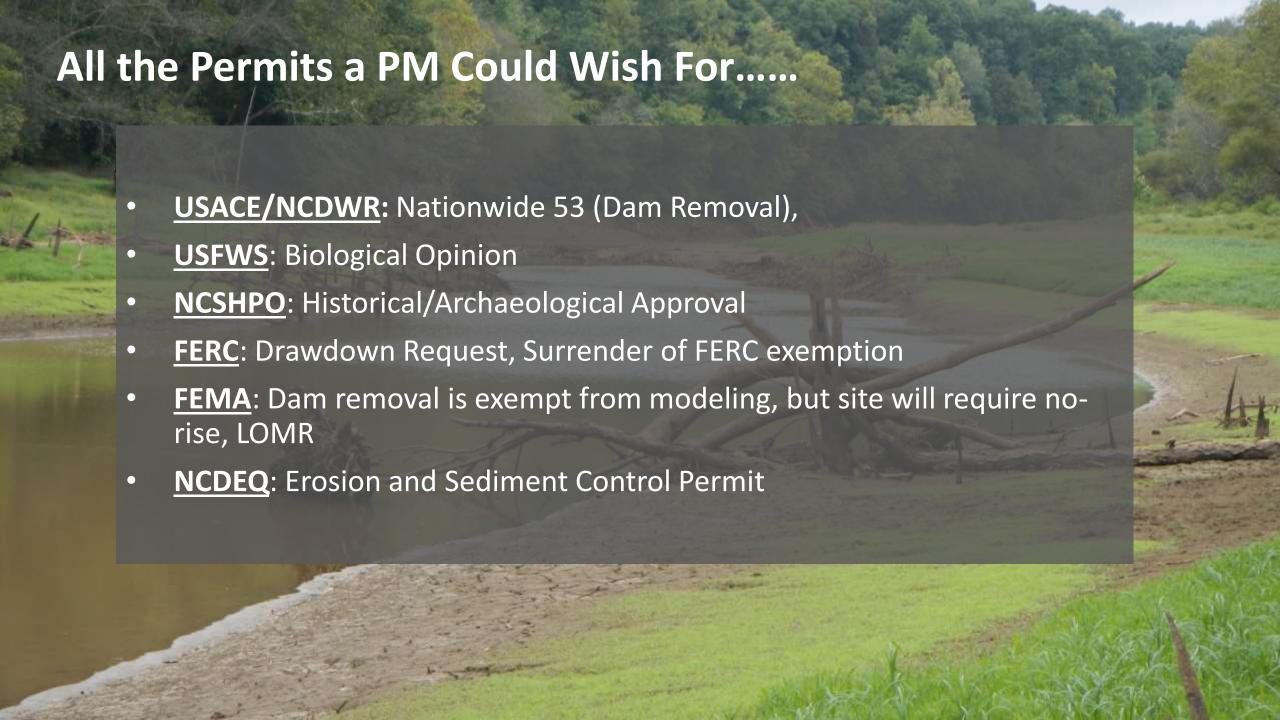
Critical Habitat Area for the Cape Fear Shiner





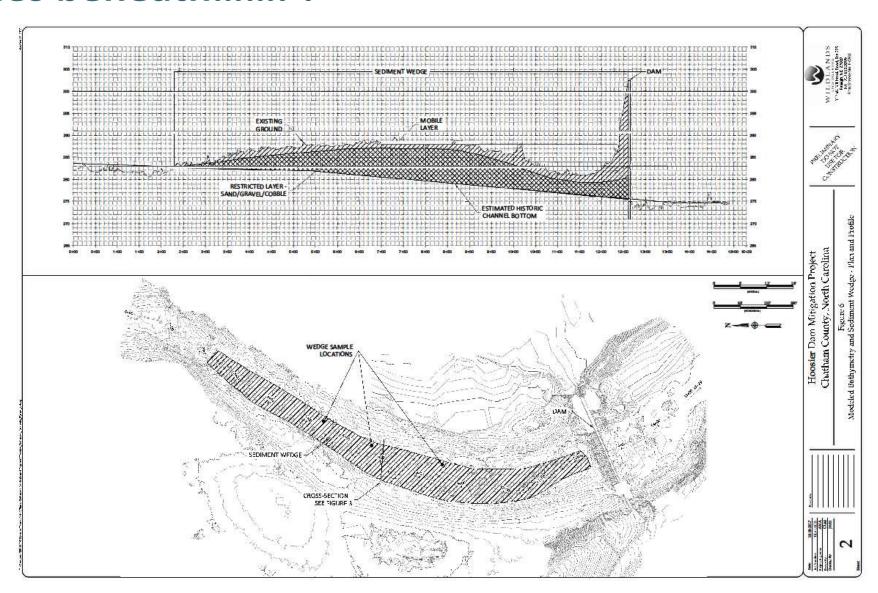


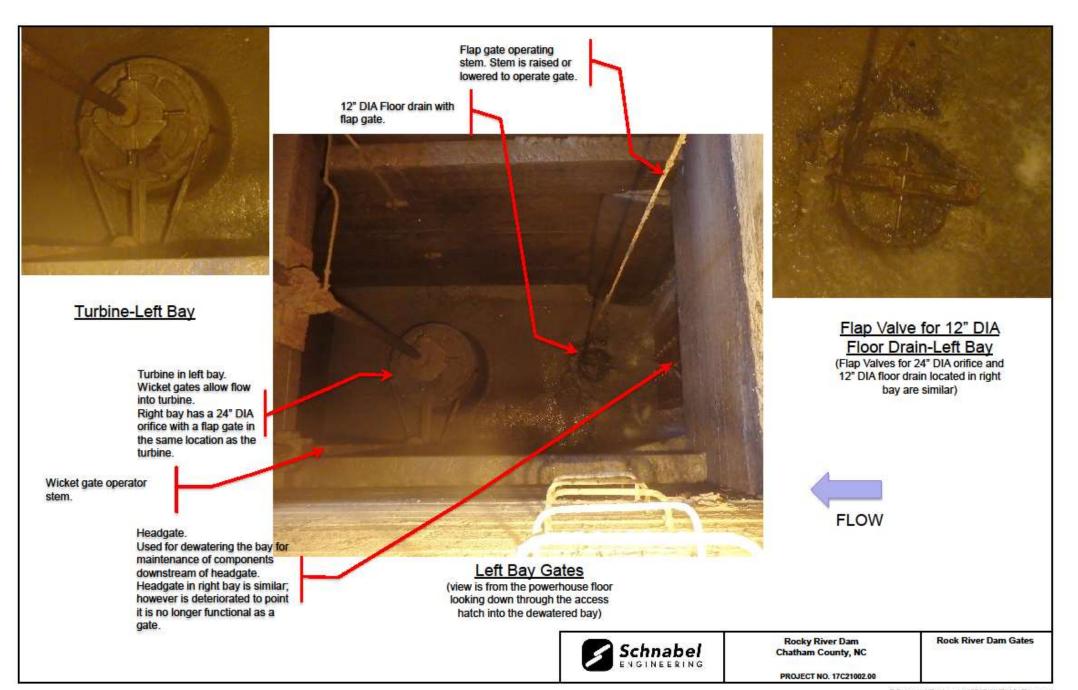
- Water Quality Analysis: July to September 2013
- Geomorphic Assessment: July 2015
- Wetland Delineation: July 2016
- **Grant Start**: January 2017
- Pre-Application Meeting: March 2017
- Tier 1 Sediment Report: September 2016, reissued March 2017
- Biological Assessment: May 2017
- Dewatering of Impoundment/FERC exemption: June 2017
- Permitting: March 2017 to 'Sometime in the Future'
- **Dam Removal**: October 2018





What lies beneath.....?







Let's Engineer Something!



We dewatered, now what?

Sediment Combination of gravel, cobble, and fines with low likelihood of contamination













Carolina Creekshell (*Villosa* vaughaniana)



Eastern Creekshell (Villosa delumbis)



Savannah Liliput (*Toxolasma* pullus)

USFWS

VS

NCWRC

After 5+ years working on the project and lots and lots of paperwork.....



Then I got another call!

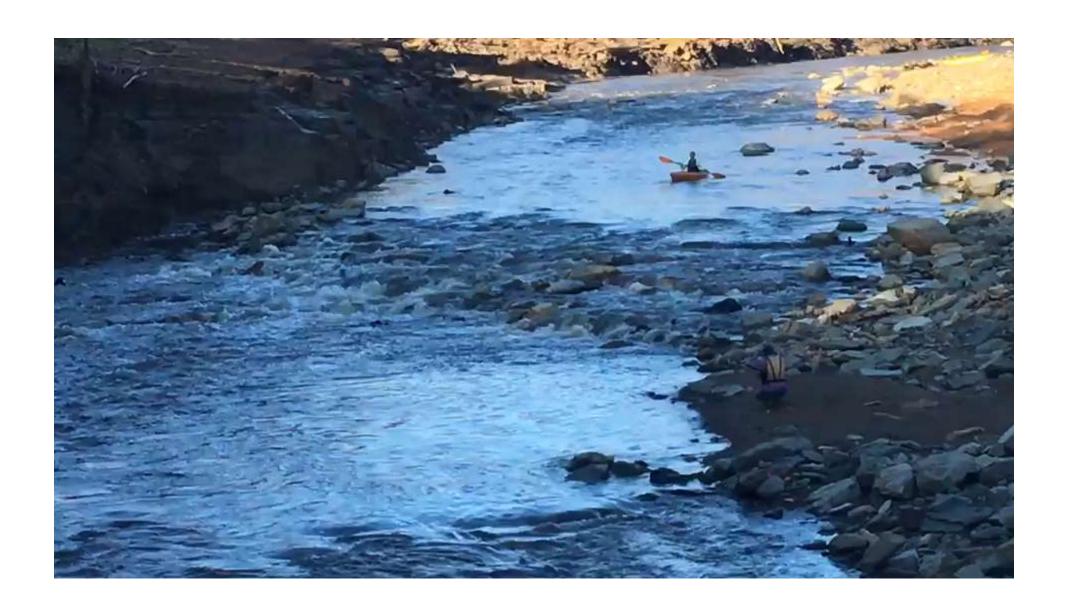












December 2018



June 2019



