

Choccolocco Creek Watershed Dam No. 11 Rehabilitation Project Calhoun County, Alabama

Fact Sheet
February 2016

History of the Dam:

Choccolocco Creek Dam No. 11 is a multi-purpose dam constructed by local watershed project sponsors in 1971 for flood control and municipal water supply.

The Water Works and Sewer Board of Anniston, Alabama requested assistance from the Natural Resources Conservation Service (NRCS) to upgrade the dam to meet current criteria for a high hazard dam.

Rehabilitation of the dam began in January 2007 and the project was completed in May 2008. The sponsors performed all the work on the parapet wall and the auxiliary spillway and the remainder of the work was done through a contract administered by the Water Works and Sewer Board.



A turf reinforcement mat was placed in the auxiliary spillway; grout and loose rock riprap was placed on the downstream toe of the dam, and some metal work was replaced on the concrete riser.



A concrete parapet wall was built along the top of the dam crest and the auxiliary spillway was raised by 0.4 feet.

Why Rehabilitate the Dam?

The dam is in a much different setting than when it was originally constructed. Over the years population growth and urban sprawl has occurred downstream from the dam and land use changes have taken place. The dam was designed and constructed as a significant (moderate) hazard dam. Since the dam was built a multi-million dollar water treatment plant and homes have been built downstream which resulted in the dam being reclassified as a high hazard dam.

Rehabilitation Details:

Several alternatives were considered to bring the dam into compliance. The structural measures selected and designed to upgrade the dam consisted of a concrete parapet wall along the top of the dam crest; raising the auxiliary spillway by 0.4 foot; installing a turf reinforcement mat in the auxiliary spillway; placing grouted and loose rock riprap on the downstream toe of the dam and replacing some metal work on the concrete riser.

The parapet wall raised the top of the dam elevation by 5.3 feet in order to safely contain and pass runoff from the maximum probable flooding event. The riprap placed on the downstream face of the dam protects the toe of the dam from flows discharging from the auxiliary spillway.

Project Cost:

The NRCS provided technical assistance and 65 percent of the project cost. Local project sponsors provided 35 percent of the cost. Rehabilitation of the dam cost \$1,262,368.

Benefits:

Rehabilitation of the dam will ensure a safe water supply and provide increased safety to occupants of 23 homes and the multi-million dollar water treatment plant that is within the downstream potential flood zone for at least another 100 years.

Partners:

- Water Works and Sewer Board of Anniston, AL
- Natural Resources Conservation Service
- Talladega Co. Soil and Water Conservation District

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