

Plum Creek Watershed Dam No. 6 Rehabilitation Project Hays County, Texas

Fact Sheet
July 2018

History of the Dam:

Plum Creek Watershed Dam No. 6 is located inside the city limits of Kyle, Texas. The dam was constructed in 1967 by the Plum Creek Conservation District with the assistance of the Natural Resources Conservation Service (NRCS) Watershed Protection and Flood Prevention Program.

The dam is one of 18 dams in the Plum Creek Watershed project that were constructed to provide flood control.



A labyrinth weir was installed to replace the current earthen spillway during rehabilitation.

Why Rehabilitate the Dam?

The dam was originally designed as a low hazard dam with a 50-year design life. It was designed with a maximum capacity to hold 3,763 acre feet of water and the ability of containing a 25 year rainfall event of 6.4 inches. The dam was reclassified as a high hazard dam in 2002 which failed to comply with current dam safety and performance criteria.

Numerous structures and several county roads would be at risk from a catastrophic breach of the dam. One of these roads, Goforth Road, is a well-traveled arterial roadway, located immediately downstream of the dam

Rehabilitation Details:

Rehabilitation of the dam included extension of the dam southeastward; removal of the old auxiliary spillway which currently crosses over Goforth road; installation of a labyrinth weir design spillway; installation of a new intake riser and impact basin; and a realignment of Goforth road.

Project Cost:

The total cost of the rehabilitation project was \$7.8 million. NRCS provided 65 percent of the cost of the project; the Texas State Soil and Water Conservation Board provided 33.25 percent and the Plum Creek Conservation District provided 1.75 percent. Federal funds for the project came from NRCS Small Watershed Program Rehabilitation funds.

Benefits:

Rehabilitation of the dam brought it up to current State dam safety criteria and extended its life and its benefits for another 100 years.

The dam provides flood protection for houses and roads downstream. The rehabilitated dam will now be able to handle a probable maximum flood (PMF) storm event which is 30.8 inches occurring over a six hour time period.

Partners:

Plum Creek Conservation District
USDA Natural Resources Conservation Service
Texas State Soil and Water Conservation Board

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