

Boiling Springs Watershed Dam No. 1 Rehabilitation Project Latimer County, Oklahoma

History of the Dam:

Boiling Springs Watershed Dam No. 1 was constructed in 1973 in Latimer County, Oklahoma, by the Latimer County Conservation District with the assistance of the Natural Resources Conservation Service (NRCS) Watershed Program.

The dam was originally designed as a low hazard dam. However, it has since been re-classified as a high hazard dam due to downstream development.

While most watershed projects include a series of dams. This is the only flood control dam in the watershed. The watershed is small in size and the dam is located in a place where it controls 53 percent of the watershed drainage.



A roller compacted concrete spillway will be installed over the top of the dam and the principal spillway inlet will be replaced.

Why Rehabilitate the Dam?

Because of the reclassification to high hazard and the age of the dam it is being rehabilitated to bring it up to current dam safety standards and extend its life for another 100 years.

Rehabilitation Details

NRCS contracted with Ad Astra to provide a design for rehabilitation that would meet current dam safety criteria. That design was completed in June 2022.

Major rehabilitation work will include a new 216 feet wide roller compacted concrete spillway and a new principal spillway inlet tower.

The existing top of dam is also utilized as a rural road for property owners in the area. A 14-cell box bridge will be constructed to span the new spillway so the road can still be utilized.

The NRCS is providing technical assistance and funds for the design and construction inspection costs plus 65 percent of the construction costs.

The remaining 35 percent of the construction cost will be provided by local watershed project sponsors and funds appropriated by the Oklahoma Legislature.

Benefits:

Rehabilitation will extend the life and benefits of the dam for another 100 years and provide flood protection for rural areas and homes and downstream.

The dam provides \$37,000 in average annual benefits from reduced flood damages; provides flood protection for 18 farms and ranches, and 3 bridges and county roads. The dam reduces sedimentation in the downstream stream by 4,516 tons of soil annually.

Project Partners:

- Latimer County Conservation District
- Oklahoma Conservation Commission
- USDA NRCS

For More Information Contact:

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