

Mary's Creek Watershed Dam No. 9 Rehabilitation Project Shelby County, Tennessee

Fact Sheet
October 2020

History of the Dam:

Mary's Creek Watershed Dam No. 9 was constructed as a flood retarding structure in 1962 under authority of the USDA Pilot Watershed program.

The dam was constructed by the Shelby County Soil Conservation District with the assistance of the USDA Natural Resources Conservation Service (NRCS) to control flooding of mostly agricultural land. The dam is one of seven constructed in the Mary's Creek Watershed.



The project will raise and widen the top of an existing earth embankment

Why Rehabilitate the Dam?

Based upon the inspection and evaluation of federal dam inspectors, the dam was classified as deficient due to insufficient storage and spillway capacity to pass the one-half probable maximum flood.

Rehabilitation Details:

The project will raise and widen the top of an existing earth embankment. A sand diaphragm will run the length of the dam to protect the dam from a large earthquake event near the New Madrid seismic zone. Concrete and metal work will consist of replacing deteriorated appurtenances on the riser (trash rack and grates), extending the concrete footing around the base of the riser, placing concrete bedding for an extension of the principle spillway pipe,

and constructing a new concrete impact basin with metalwork.

The project will also involve adding two segments of prestressed concrete cylinder pipe to the end of the existing principle spillway. A pipe drop will also be installed downstream of the dam using corrugated aluminum pipe.



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Project Cost:

NRCS is providing 65 percent of the cost of design and construction and local project sponsors are providing land rights, easements and 35 percent of the cost.

Benefits:

The rehabilitation project will improve the safety of the dam and extend the dam's life span for another 100 years.

Partners:

Shelby County Water Soil Conservation District
USDA NRCS

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This fact sheet was developed by the National Watershed Coalition in cooperation with the USDA Natural Resources Conservation Service
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