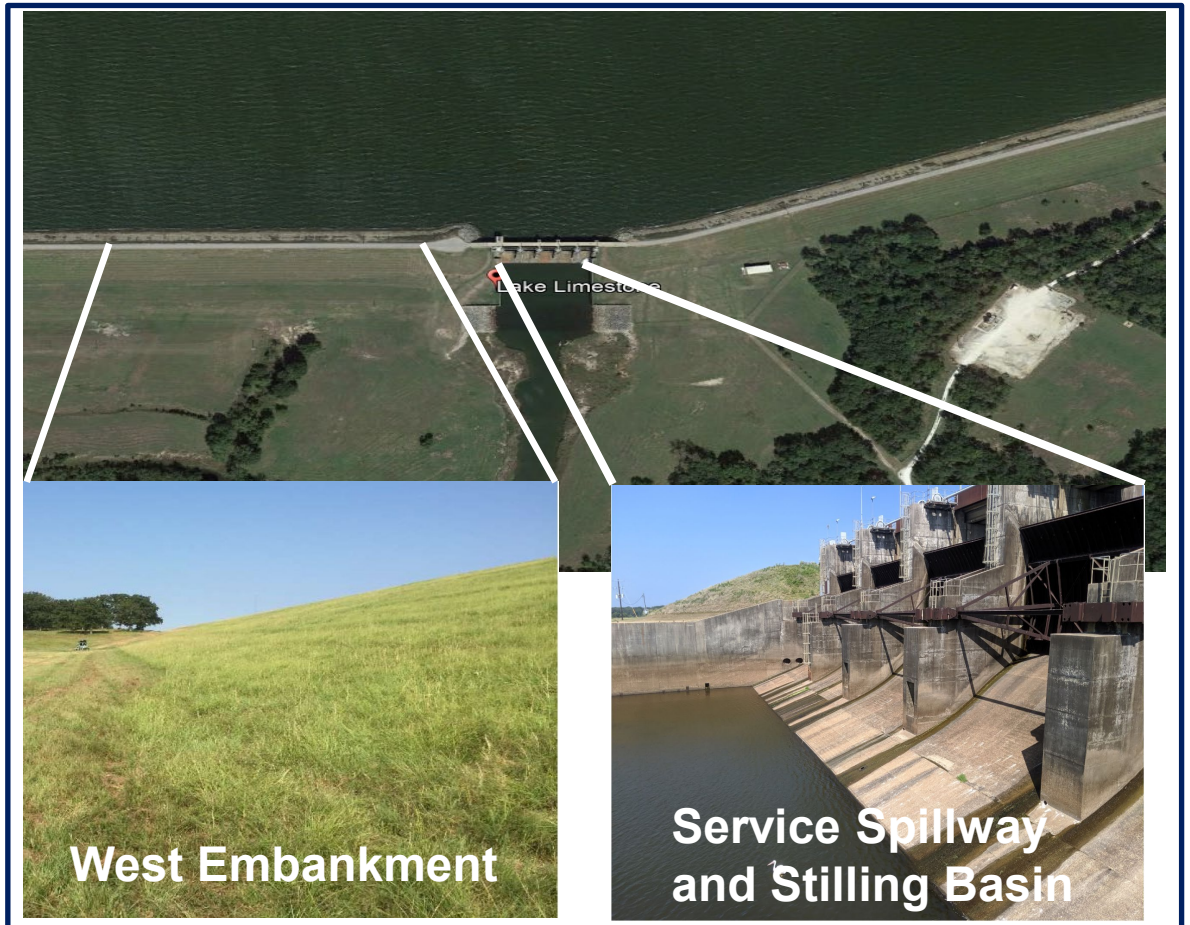
Lake Limestone Hydrostatic Relief System Assessment and Replacement

Brazos River Authority



The Sterling C. Robertson Dam was completed in 1978 to form Lake Limestone. The dam is an earthen embankment structure with a concrete spillway that houses five Tainter gates. The spillway contains a stilling basing that reduces velocity and turbulence of released water to prevent scouring. A Hydrostatic Pressure Relief System (HPRS) was constructed within the Service Spillway, Stilling Basin, West Embankment and East Embankment to provide drainage, control hydrostatic pressures and improve stability. Inspections have noted that due to the age (est. 40+ years) and material of the piping for the HPRS, it is necessary to assess the system and to design and replace components, as required.

The Project

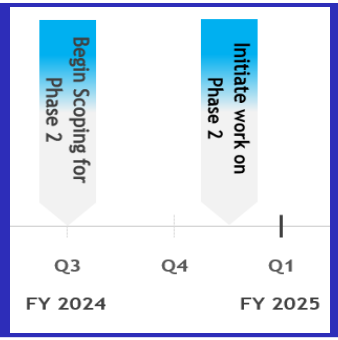
This project will be conducted in 4 phases. Phases 1 & 2 will be an Initial Assessment and Evaluation of the functionality of the dam's Hydrostatic Pressure Relief System and will recommend viable improvements (as needed) so that all components in the West Embankment, East Embankment and the Service Spillway will achieve a minimum additional service life of 40 years. Based on the results of Phases 1 & 2, the BRA may authorize Phase 3 to design improvements to HPRS. Phase 4 will construct the designed improvements and complete the project.

Current Project Status 2/16/2024

- Phase 1 closeout meeting held internally to accept all deliverables and discuss lessons learned thereby officially completing phase 1 of the assessment.
- Phase 2 contract and scope of work development is beginning.
- Phase 2 will include assessing the current functionality of the HPRS system including but not limited to collecting geotechnical data, piezometric readings, various analyses, and a final technical report that contains recommendations to the BRA for preferred alternatives, based on the results of the evaluation.
- Project spending for phase 1 was completed in calendar year 2023. Project spending for phase 2 scope of work will commence once development is complete.

Planned Schedule

Note: BRA Fiscal Year Runs Sept to Aug



Budget Summary	
FY 2024 Budget	$650,000
FY 2024 Project Expenses (as of 12/31/22)	$0