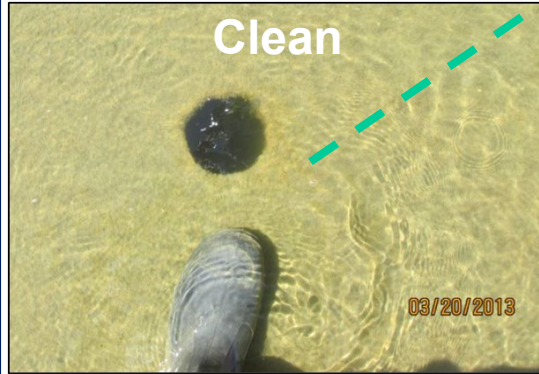
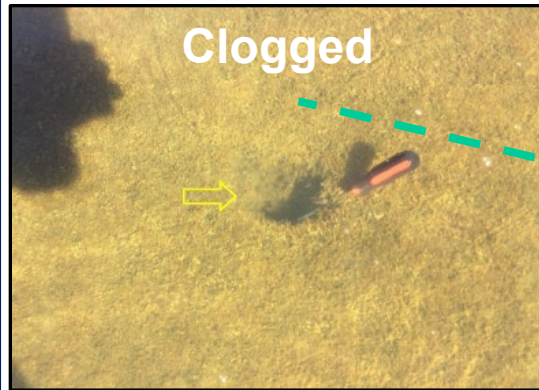




Lake Granbury Hearth Stability Analysis Project

Lake Granbury Hearth



The DeCordova Bend Dam hearth has hundreds of 4-inch drain holes spaced throughout the concrete slabs of the Hearth Sill. The drain holes help relieve uplift pressure. Due to their location in the hearth below the spillway, the drain holes regularly collect debris and are very difficult to keep clean.

The Project

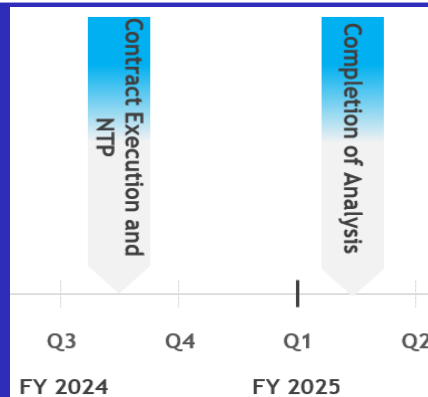
Per an Annual Maintenance Inspection Report, most of the drains within the Hearth (spillway section below the gates) appear to be clogged and need to be cleaned. Consequently, an engineering stability analysis is recommended to evaluate the criticality of these drains and to determine the adverse effects on the stability of the hearth due to the clogging of these drains. These drains are just one of a few design features relieving uplift pressures. There are numerous anchor bars hooked over the hearth slab and driven deep into the bedrock underlying the hearth. In addition, the tailwater backs into the dam, helping to offset uplift pressures. This analysis will confirm the degree of redundancy at the dam, and also if maintenance of the drain holes is required, and the frequency of which, if required.

Current Project Status 4/26/2024

- Notice To Proceed is planned for May 6
- Task One will focus on an in-depth records review and analysis
- Task Two will include on-site inspections and investigation
- Task Three will include a comprehensive engineering analysis
- Findings and recommendations will be published in a sealed Preliminary Engineering Report

Planned Schedule

Note: BRA Fiscal Year Runs Sept to Aug



Budget Summary

FY 2024 Budget	\$225,000
FY 2024 Project Expenses (As of 2/29/2024)	\$0