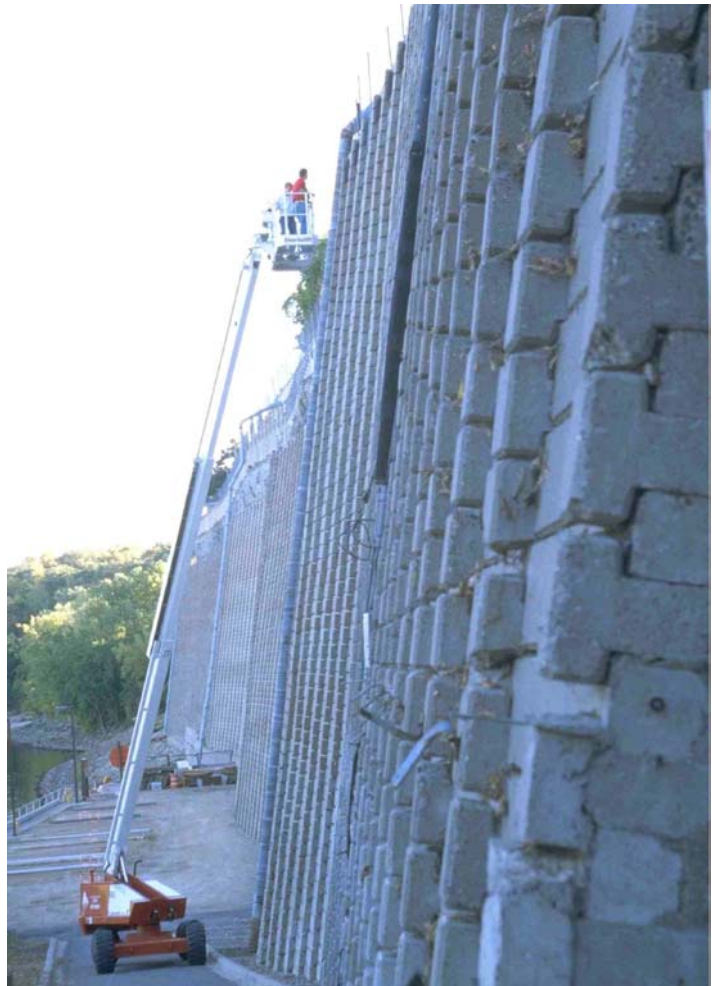


Lock and Dam #1 Cribwall—Geostructural Investigation

Lock and Dam #1 is located in Minneapolis, Minnesota, on the Mississippi River. The cribwall, originally constructed in the 1950's, was tipping and experiencing a number of structural and geostructural problems. This massive retaining system is over 1400-feet long and stands over 65-feet tall.

CNA evaluated the structure and performed analyses to design a system to stabilize and prolong the cribwalls useful life. In evaluating the structure, CNA mapped structural deterioration and anomalies, cored concrete samples and conducted concrete and soil examinations.

- Tieback Systems
- Slope Stabilization
- Finite Element Analysis
- Concrete Retaining Structures
- Rock Retaining Structures



Owner — U.S. Army Corps of Engineers

Completion Date — 1999

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