



US Army Corps
of Engineers
St. Louis District

Information Paper

CAP 1135: Clarence Cannon at Mark Twain Lake, MO

Feasibility (CAP Section 1135)

Contact:

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Location:

Mark Twain Lake is located in northeastern Missouri on the Salt River Basin on the Salt River. Clarence Cannon Dam and the Re-Regulation Dam are located in Ralls County at Salt River miles 63.0 and 53.5, respectively, upstream from the confluence with the Mississippi River. Mark Twain Lake is in both Ralls and Monroe Counties, approximately 20 miles southwest of Hannibal and 140 miles north of St. Louis.

Description:

Low dissolved oxygen (DO) concentration in the re-regulation pool caused by lake water with low oxygen moving through the turbines has been a long term, significant water quality concern at Clarence Cannon Dam.

Status: St. Louis District approved the Federal Interest Determination on 18 August 2023. The U.S. Army Corps of Engineers (USACE) is negotiating Feasibility Cost Sharing Agreement (FCSA) with the Missouri Department of Conservation (MDC). In early January 2024, MDC informed USACE that funding for the cost share is now available and to proceed with FCSA execution.

Importance: The Mark Twain Lake Environmental Stewardship Program is chartered through laws and regulations to manage public lands under its jurisdiction in such a manner which “*conserves fish and wildlife,*” “*benefits wetlands,*” and “*provides a safe and healthy environment for visitors.*” The stewardship authorities afforded through the Fish and Wildlife Coordination Act, National Environmental Policy Act of 1969 (PL 91-190), Water Resource Development Acts, Forest Cover Act, and numerous engineering regulations offer natural resource managers several methods to accomplish their role.

Authority: Section 1135, Water Resources Development Act of 1986, as amended.

Schedule:

- Federal Interest Determination Approval: 18 August 2023
- Initiate Feasibility Study: April 2024
- Final report: TBD

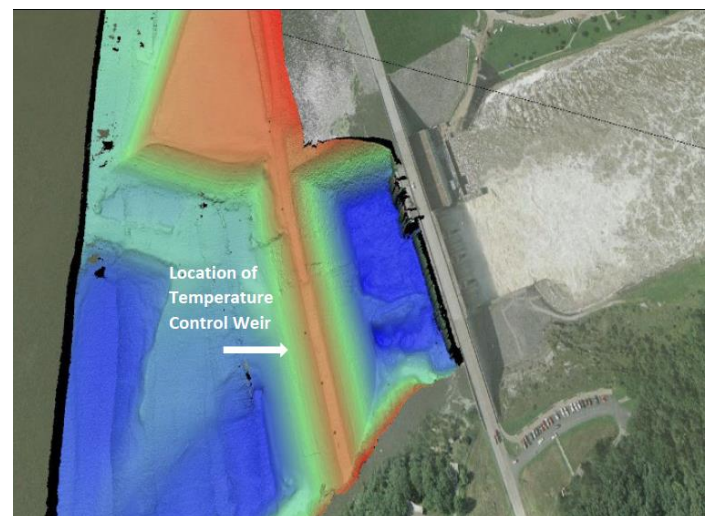


Figure 1: Temperature Control Weir near Clarence Cannon Dam at Mark Twain Lake.

Activities for FY 24: USACE has received additional 100% federal dollars for FCSA negotiation, Review Plan development, and Project Management Plan development. A Feasibility Study will begin once an agreement is executed and funds are received.

Activities after FY24: Complete Feasibility Study.

Project Sponsor/Customer: The Missouri Department of Conservation (MDC).

Congressional Interest: Senate: Schmitt & Hawley
House: Graves (MO-6)

Financial (Feasibility):

Estimated Federal cost: \$375,000
(\$100K FID, FCSA; \$550K cost shared)
Estimated non-Federal cost: \$275,000
Total estimated cost: \$650,000
Total Federal funding to date: \$100,000