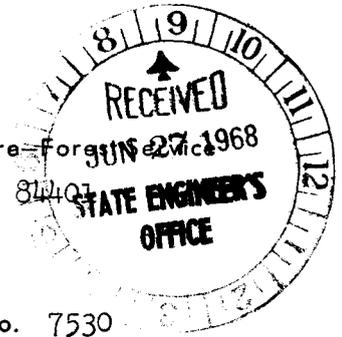


UNITED STATES GOVERNMENT

Memorandum

Department of Agriculture - Forest Service
Ogden, Utah 81407

TO : Forest Supervisor, Fishlake N. F.

File No. 7530

FROM : James M. Usher, Regional Engineer, By

Date: June 24, 1968

SUBJECT: Dams (Three Creeks, Beaver Ranger District, Your reference:
Fishlake N. F.)

Enclosed is a copy of the dam maintenance inspection sheet for the inspection performed by John E. Riley of this office on June 19 and 20, 1968.

The dam at the present time appears to be holding up with the additional water stored behind it. It is our recommendation that someone from the Forest Service observe this dam daily to watch for additional seepage or any possible piping through the structure.

The Ranger and Mr. Riley staked out the extent of the seepage in the lower portion of the downstream side of the dam on June 20. Along with this they spray-painted the actual edges of the seepage area in order that any significant change in size of the seepage area could be noted. This will provide a basis for watching the seepage flows through the dam.

Another point to watch is the existing flow in the "spring", which comes up approximately at the same elevation as the lower piezometer box on the dam and slightly to the north. Water running down both abutments appears to be increasing in quantity over that observed last year when the water in the reservoir was only raised to the 1,500 acre-foot level. We feel that this should be classified as a critical project until the water is at least down to the 1,000 acre-foot mark and be considered as a critical project if seepage continues to occur. In the old spillway channel a considerable flow of water was found, which was apparently coming from the shattered and broken rock in the north or right abutment of the dam. These flows should be carefully observed and notes made when they cease.

A copy of this report will be sent to the State Engineer for his review. If we can be of any further assistance to you on inspecting of this project, please advise.

Pictures taken during the inspection will be forwarded as soon as they are developed to accompany Mr. Riley's report.

Enclosure

Roy I. Connelly

cc: Beaver Ranger District
Fishlake N. F. - Terry Price
(State Engineer
R&L .

DAM MAINTENANCE INSPECTION SHEET

(REQUIRED ANNUALLY FOR ALL PROJECTS UNDER FOREST SERVICE SUPERVISION)

NAME OF PROJECT: Three Creeks FOREST: Fishlake N. F.
State Board of Water Resources
 OWNER: Kents Lake Irrigation Company DISTRICT: Beaver
(Or LU Project)
 AUTHORITY: Special Use STREAM: Three Creeks
 PURPOSE: Irrigation YEAR CONSTRUCTED: 1958-60

LOCATION: Section _____ ; Township _____ ; Range _____ ; Meridian _____

OR: State Coordinates x _____ y _____ ; OR: Lat. _____ Long. _____

DAM HEIGHT: 85 Feet; GROSS STORAGE CAPACITY: 2,059 Acre-Feet

(Check condition of project works against check list on back of this form. Describe below any deficiencies by reference number. Attach separate sheet, when necessary, for additional description or photographs. Owner should be notified immediately of deficiencies which require attention.)

Dam is beginning to become saturated along the downstream third. Water is seeping along both abutments; left abutment estimated at 40 gpm, right abutment at 30 gpm, with about 5 gpm coming up from "spring" at same level as lower piezometer box approximately 1/4 way across dam. Considerable water running under rocks in spillway. Appears to be coming in from right abutment of dam. Reservoir at elevation 93.9 on gage and rising (100 is spillway level).

Board of Natural Resources plan to run tests on dam while water surface is at maximum elevation. Continued storage at this elevation could result in failure by piping. Seepage areas staked to see if they are spreading. Terry Price to run three lines of stakes across face of dam and will run levels on hubs at each stake to detect any movement. Stakes are to be checked weekly to see if any differences in elevation are noted.

INITIAL ACTION TAKEN TO CORRECT DEFICIENCIES: _____

MAINTENANCE CONDITION SUMMARY

<u>HAZARD CLASS</u>	:	<u>MAINTENANCE CONDITION</u>	:	<u>CRITICAL PROJECT</u>
L ___ M ___ H <u>X</u>	:	U ___ P ___ S ___	:	U + M or H ___

INSPECTED BY: Riley - Price, Engineers; July 19, 1968
 (Name) (Title) (Date)

Taylor - Carpenter Foresters
 Photos - Color Polaroid shows seepage area. (OVER)
 Condition to be discussed with State Engineer.