

G-91

This structure is a single-barreled corrugated metal pipe culvert with control effected by stop logs in a CMP riser pipe. It is located on a channel connected to Lake June-in-Winter; it discharges into Lake Francis.

PURPOSE

This structure is a secondary outlet to Lake June-in-Winter. It is the sole inlet to Lake Francis, hence its primary purpose is to provide water quality control to that lake.

OPERATION

Normally, discharges are made from Lake June-in-Winter through this structure. Whenever Lake June is above schedule, required discharges will be calculated to bring the lake to the regulation schedule within two weeks. Caution will be exercised in making releases through this structure so as not to cause flooding around Lake Francis, which occurs at stages above 72.1.

Greater discharges are made through G-90, the principal outlet to the lake.

When the lake is below schedule, G-91 is normally closed. It is opened occasionally to provide some flow to Lake Francis.

Note: Elev. Lake Francis Weir is 68.60.

FLOOD DISCHARGE CHARACTERISTICS

This structure is not designed to pass flood flows, which are discharged by the Jack Creek Structure, G-90.

DESCRIPTION OF STRUCTURE

Type corrugated metal pipe culvert with discharge controlled by stop logs in riser pipe

Number of Barrels: 1

Size of Barrel: 66 inch 74.97

Length of Barrel: 100+ feet 75.29

Flow Line Elevation: 67.43 to 64.43 feet 75.49

* Reference Points

Riser Pipe:

Top Elevation: See Reference Points*

Diameter 96 inch

Control Weir:

<u>Number of Boards in Place</u>	<u>Overflow; Crest Elevation</u>
0	70.00
1	70.63
2	71.30
3	71.97
4	72.63
5	73.30
6	74.00

Stop Logs:

Number: 6 pairsSize: 3" X 7 1/4" X 48"Water Level which will by-pass structure: 77.0 feet

ACCESS: West about 3 miles on SR 621 from U.S. 27 and north about 1/2 miles via county road on east bank of Jack Creek.

HYDRAULIC & HYDROLOGIC MEASUREMENTS

Water Level None at structure. Lake June level staff gauge on pier at mount of Jack Creek. Headwater staff gauge at Jack Creek Structure (G-90). Lake Francis staff gauge on pier at 4-H Camp on south shore of lake.

Gate Position Recorder None**DEWATERING FACILITIES** None