

# MEMORANDUM

# State of Alaska

TO:  Roger Wadman  
Fisheries Biologist  
ADF&G, Juneau

DATE : October 13, 1965

FROM: Bob Baade  
Fisheries Biologist  
ADF&G, Ketchikan

SUBJECT: Neck Lake Road

I flew yesterday with Ranger Glenn Beckman to have a look at the proposed island hopping timber access road across the south arm of Neck Lake on Prince of Wales Island. Attached is a sketch of the lake showing the approximate location of the road and the lake crossings between the islands.

The lake bottom at the crossings is largely loose peat to a depth of 15 to 19 feet by word of Glenn Beckman. A bridge is proposed at location A on the sketch where the deepest channel exists. The normal surface elevation of Neck Lake is 87 feet. No salmon scale the falls into the lake. Sites B and C on the sketch are shallow passages normally containing about 3 feet of water. These two channels it is proposed to fill. The south portion of the lake is not over 15-20 feet deep at the deepest and has a heavy growth of vascular aquatic plants. There is a small permanent tributary from the south into this lake area.

The effects of road fills at locations B and C would be to force the organic detritus outward and upward probably exposing some the surface of the bottom. The tributary of the south end of the lake flows through all 3 channels. This should not be confined to Channel A especially during periods of extreme high water flows.

I can see no serious detriment occurring if channel C is filled. I suggest a four foot culvert be set in fill B resting at present lake bottom level or slightly below. This may be underlaid with fill material to prevent sinking of the culvert and subsequent plugging with muck.

It is my feeling that the above procedure will not cause excessive adverse effects to the fish food production or fish use of the south arm of the lake which would be relatively isolated by the proposed solid fills.

The road as proposed follows the south shore of the lake leaving the shoreline undisturbed and debris of construction removed. The occasional rocky bluff forces the road to or slightly over the present shore line. The plan stipulates this shall be held to an absolute minimum.

RTB/md

*Bob Baade*