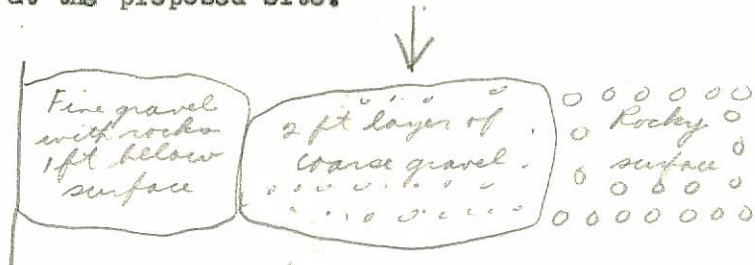


PRELIMINARY SURVEY OF THE LAKELSE RIVER WOLFE TRAP

LAKELSE RIVER

Levels: The water level dropped only one half inch to where the rapids begin. Level reading at the old fence (lake level) was 2.41 (September 3rd). Water level at proposed fence site with reference to the fence level stake was 0.59. Therefore the difference of level was 1.82 feet. The difference of level needed for a Wolfe trap type fence would need to be about four feet. Therefore the lake would be affected if the dam was built at this site. A site low enough below the lake would be at Coldwater creek, a tributary of Lakelse river. However, presence of bedrock and low banks makes site at Coldwater impractical. Below Coldwater the river is narrow with low banks. The following diagram shows the bottom conditions at the proposed site.

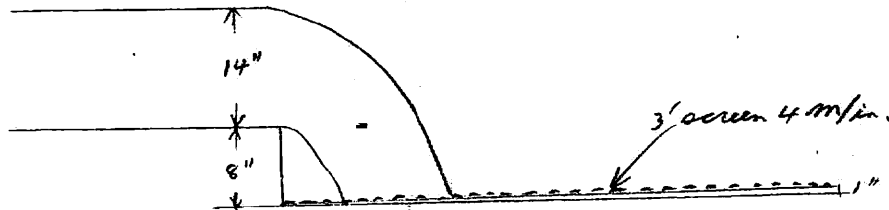


Widths: The width of the first site (Rocky bay) is 369 feet. The width of the second is 350 feet.

SCREENING

Due to lack of time and volume of water in Granite creek a full test of the screen samples could not be made. The 4 mesh/inch screen worked well with 14 inches head of water over the dam. The screen was placed in the position as in the diagram. The fish (fry) bounced off without any noticeable harm to them. However the screen placed in this

position would not work with a small amount of water coming over the dam. The 3 mesh/inch screening could probably take more water and still deflect the fish.



September 14, 1949.

W. D. Cripps

Notes made in June 1949 in consultation with McConnel and Cripps.

Work should be done at low water in July, August and September.

Dam should be of 4" x 4" to a height of 4' allowing for a 1' flow of water.

Horizontal screens - 3 & 4 mesh, 17 gauge - 350' x 4' = 1400 square feet or approximately \$1000.

Troughs - 2' x 12'.

12 yearling pens.

4 adult traps

Estimated cost (combined adult and yearling fence) - \$15,000 plus a cabin.

D. J. Milne

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