

TDH:1

19th November, 1952

MEMORANDUM:NORTH ESK REGIONAL WATER SUPPLY TUNNEL

This tunnel will be situated in a bend of the North Esk at Watery Plains and as indicated by the boring should pass through dolerite in various stages of weathering.

To the south of this position is a basalt covered ridge, debris from which covers the S.W. end of the proposed tunnel and to the north is an area of basalt which represents the filled in position of the old river bed. The blockage of the river by this Tertiary basalt flow has caused it to deviate in a wide bend. The area bored, which represents the position of the proposed tunnel, is adjacent to this basalt flow and this means that it was adjacent to the bed of the Tertiary stream and water infiltrating along joint planes (of which two main sets are developed, one north-east and the other north-west) would speed the weathering of the dolerite. Thus the decomposed and seemingly broken state of much of the dolerite bored is due to weathering and not faulting and any movement in the near future is not considered likely.

(Sgd.) Terence D. Hughes

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GEOLOGISTS.

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