BF 71287 Local Road Over Majeau Lake Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.002
B = 2 m, h = 1.2 m, T_h = 5 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.7 m/s, Q = 3 cms
At Channel Capacity : Y = 1.8 m, V = 1.1 m/s, Q = 8 cms

Historical Highwater Data :

A 1994 BIM report notes a HWM with Y = 1.8m. The 1979 design was based on Q = 4cms and notes BW influence from d/s lake.

There are no gauges on this stream. Gauges in the area suggest HW events in June 1965, July 1971, July 1986 and April 1982. The storm database notes many storms for this area in the 100 - 120mm range.

Basin Runoff Potential :

d = 50 mm, T_p = 20 hrs, q = 0.7 cms/km^2.
Gross DA = 29 km^2.
Q_p = 20 cms.

Conclusion :

The channel capacity estimate is consistent with the historic information and is within the basin runoff potential.

Recommended parameters : Y = 1.8 m, V = 1.1 m/s, Q = 8 cms.