BF 73688 Local Road Over McLeod River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.012
B = 2 m, h = 1 m, T_h = 4 m
Use n = 0.055

At Bank Height : Y = 1 m, V = 1.5 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 2.1 m/s, Q = 10 cms

Historical Highwater Data :

There are no HW observations for this site.

There are no gauges on this stream. Gauges in the area suggest HW events in 1985, 1989, 1996, and 1999. The storm database notes storms in June 1944 (140mm), July 1939 (120mm), June 1965 (120mm), July 1955 (100mm), June 1985 (100mm), and August 1989 (100mm).

Basin Runoff Potential :

d = 60 – 90 mm, T_p = 20 hrs, use q = 1.0 cms/km^2.
Gross DA = 10 km^2.
Q_p = 10 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 2.1 m/s, Q = 10 cms.