BF 72236 Hwy 16 Over McLeod River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.002
B = 1.5 m, h = 0.8 m, T_h = 3 m
Use n = 0.05

At Bank Height : Y = 0.8 m, V = 0.6 m/s, Q = 1 cms
At Channel Capacity : Y = 1.3 m, V = 0.9 m/s, Q = 3 cms

Historical Highwater Data :

A 1960 report notes a HWM with Y = 0.9m and estimates Q = 3cms. The 1989 design was based on Q = 4cms and Y = 0.8m.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in June 1980, July 1982, July 1986, August 1989, and July 1999. The largest storms in the storm database are about 100mm of rainfall in June 1944, June 1958, July 1965, July 1982, and July 1986.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 32 km^2.
Q_p = 26 cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 0.9 m/s, Q = 3 cms.