BF 78249 Hwy 734 Over Moose Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.014
B = 4 m, h = 1.2 m, T_h = 6 m
Use n = 0.045

At Bank Height : Y = 1.2 m, V = 2.3 m/s, Q = 14 cms
At Channel Capacity : Y = 1.8 m, V = 3.4 m/s, Q = 30 cms

Historical Highwater Data :

HW was observed at this site in June 1990 (Y = 1.1m, scour at the NW wing). Reports from 1970 and 1975 note HWM with Y = 1.8m.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1965, June 1970, June 1972, July 1981, July 1986, June 1990, and July 1999. The largest storms in the database for this area are July 1965 with 125mm of rainfall, June 1970 and July 1986 115mm, and June 1972 and July 1982 with 105mm.

Basin Runoff Potential :

d = 80 mm, T_p = 20 hrs, q = 1.1 cms/km^2
Gross DA = 32 km^2.
Q_p = 35 cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 3.4 m/s, Q = 30 cms.