BF 70000 Hwy 748 Over Edson River
Hydrotechnical Summary

Channel Capacity :

S = 0.0013
B = 9 m, h = 3.5 m, T_h = 15 m
Use AT equation

At Bank Height : Y = 3.5 m, V = 2.0 m/s, Q = 80 cms
At Channel Capacity : Y = 4.5 m, V = 2.4 m/s, Q = 135 cms

Historical Highwater Data :

HW was noted at this site in August 1989 with Y = 3.0m and V = 1.5m/s. A 1961 report and survey note a HWM with Y = 4.3m and water over the road to the north. A 1953 report noted a HWM with Y = 3.0m. HW was noted at BF09001 d/s in July 1965.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1972, June 1980, July 1986, and July 1999. The largest storms in the database for this area are July 1939, June 1944, June 1958, July 1965, and June 1972 with about 105mm of rainfall.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2
Gross DA = 385 km^2.
Q_p = 320 cms.

Conclusion :

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

Recommended parameters : Y = 4.5 m, V = 2.4 m/s, Q = 135 cms.