BF 01909 Hwy 43 Over Beaverlodge River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.005
B = 3 m, h = 1.0 m, T_h = 5 m (highway ditch)
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 1.1 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 1.6 m/s, Q = 10 cms

Historical Highwater Data :

The crossing capacity was increased in 1973 due to flooding in Hythe from flows along the north ditch of highway 2. Additional flooding was referred to in 1983 and the capacity was again increased in 1985. A 2000 BIM report notes a HWM with Y = 1.5m.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974, June 1990, and April 1997. The largest storms for this area in the storm database are 135mm in June 1990, 120mm in July 1951 and June 1964, and 105mm in June 1965.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 7 km^2.
Q_p = 6 cms.

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 1.2 m, V = 1.3 m/s, Q = 6 cms.