BF 00175 Local Road Over Oldman Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.004
B = 3 m, h = 1.3 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.3 m, V = 1.1 m/s, Q = 6 cms
At Channel Capacity : Y = 2.0 m, V = 1.6 m/s, Q = 16 cms

Historical Highwater Data :

A 1961 report refers to a HWM with Y = 2.1m and water over the grade, with a Q estimate of 14cms. A similar HWM is noted in a 1967 report and referred to as having occurred about 5 years prior.

There are some WSC gauges in the Pointe-Aux-Pins basin with the highest recorded flow in June 1983. Other longer record gauges in the area indicate that the spring 1974 event was the largest on record. The largest event in the storm database for this area was in June 1965 with rainfall coverage of about 140 mm.

Basin Runoff Potential :

d = 40mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 75 km^2.
Q_p = 41 cms.

Conclusion :

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

Recommended parameters : Y = 2.0 m, V = 1.6 m/s, Q = 16 cms.