BF 70818 Local Road Over Peace River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.008
B = 1.5 m, h = 1.0 m, T_h = 3 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.1 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 1.7 m/s, Q = 6 cms

Historical Highwater Data :

A 1954 report notes a HWM with Y = 0.9m and estimates Q = 3cms. A 2000 BIM report notes a HWM with Y = 2m (no description).

There are no WSC gauges on this stream. Gauges in the area indicate HW events in April 1979, June 1990, and April 1997. The storm database indicates that no storms have exceeded 100mm in rainfall for this area.

Basin Runoff Potential :

d = 50 mm, T_p = 20 hrs, q = 0.7 cms/km^2.
Gross DA = 14 km^2.
Q_p = 10 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.7 m/s, Q = 6 cms.