BF 72879 Local Road Over Dogpound Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.004
B = 4 m, h = 1.2 m, T_h = 7 m
Use n = 0.045

At Bank Height : Y = 1.2 m, V = 1.3 m/s, Q = 8 cms
At Channel Capacity : Y = 1.8 m, V = 1.8 m/s, Q = 20 cms

Historical Highwater Data :

A 1953 report notes a HWM with Y = 1.2 – 1.5m, and a 1972 note refers to a HWM with Y = 2.0m.

There are no WSC gauges on Dogpound Ck. Nearby gauges with longer records show a wide variety of flood responses, with some of the more common being in June 1990 and May 1967. The largest storms in the database for this area are June 1970 and June 1928 with about 120mm of rainfall. There are many other storms with rainfall in the 90 to 100 mm range.

Basin Runoff Potential :

d = 60mm, T_p = 20hrs, q = 0.83 cms/km^2.
Gross DA = 60 km^2.
Q_p = 50 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 = 1.8 m/s, Q = 20 cms.