BF 02328 Local Road Over Norris Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0004
B = 4 m, h = 1.3 m, T_h = 8 m
Use n = 0.05

At Bank Height : Y = 1.3 m, V = 0.4 m/s, Q = 3 cms
At Channel Capacity : Y = 2.0 m, V = 0.5 m/s, Q = 7 cms

Historical Highwater Data :

A 1903 cross section suggests a HWM with Y ~ 2.1m and a 1967 report estimates Q ~ 17cms. A 1985 AENV drainage improvement proposal refers to much higher design flows, but appear beyond the capacity of the channel.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974 and April 1997. The largest storms in the storm database are about 120mm in July 1955, September 1958, and June 1965.

Basin Runoff Potential :

d = 35 mm, T_p = 40 hrs, q = 0.25 cms/km^2.
Gross DA = 223 km^2. (lots of storage and potentially ineffective area)
Q_p = 55 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 = 0.5 m/s, Q = 7 cms.