BF 75263 Local Road Over Corbett Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.005
B = 3 m, h = 1.6 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.6 m, V = 1.4 m/s, Q = 10 cms
At Channel Capacity : Y = 2.4 m, V = 2.1 m/s, Q = 25 cms

Historical Highwater Data :

HW was noted in June 1965 (Y = 2.7m, washout). A 1960 report notes a HWM with Y = 2.1m (over the road), and estimates Q = 13cms. A 1978 report estimates Q = 17cms. A 2001 BIM report notes a HWM with Y = 2.7m (no description).

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1965, July 1971, April 1974, and April 1982. The largest storms in the storm database are 155mm of rainfall in June 1965, 130mm in August 1957, and 110mm in August 1989.

Basin Runoff Potential :

d = 50mm, T_p = 20hrs, q = 0.7 cms/km^2.
Gross DA = 93 km^2.
Q_p = 65 cms.

Conclusion :

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

Recommended parameters : Y = 2.4 m, V = 2.1 m/s, Q = 25 cms.