BF 74186 Local Road Over Corbett Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.007
B = 3 m, h = 1.5 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.5 m, V = 1.6 m/s, Q = 11 cms
At Channel Capacity : Y = 2.3 m, V = 2.4 m/s, Q = 27 cms

Historical Highwater Data :

HW was observed at this site in June 1965 with water ponded to 5.5m u/s at the 2.7m pipe and extensive scour d/s, exposing a portion of the barrel. The flow was estimated to be 24cms, assuming no blockage. A 1960 report notes a HWM with Y = 1.5m and estimates Q = 17cms.

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 = 113 km^2.
Q_p = 79 cms.

Conclusion :

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

Recommended parameters : Y = 2.3 m, V = 2.4 m/s, Q = 27 cms.