BF 08746 Local Road Over Hunting Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0013
B = 3 m, h = 2.5 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 2.5 m, V = 0.9 m/s, Q = 11 cms
At Channel Capacity : Y = 3.5 m, V = 1.3 m/s, Q = 25 cms

Historical Highwater Data :

A 1951 report notes the Q > 7cms and the 1983 design was based on Q = 13cms. A 1997 BIM report notes a HWM with Y = 3m.

There are no WSC gauges on this stream. Gauge 07GJ005 (DA = 160km^2, 1978 – 1995) on Lalby Ck reports Q = 37cms (3.0m stage increase) in May 1979 (gauging data not available). No storms in the storm database exceed 100mm for this area.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 52 km^2 (plus spill from channel u/s of BF72308).
Q_p = 45 cms +.

Conclusion :

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

Recommended parameters : Y = 3.5 m, V = 1.3 m/s, Q = 25 cms.