BF 72308 Local Road Over Hunting Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0013
B = 3 m, h = 1.8 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.8 m, V = 0.7 m/s, Q = 6 cms
At Channel Capacity : Y = 2.7 m, V = 1.1 m/s, Q = 15 cms

Historical Highwater Data :

A 1951 report notes a scour hole and known flooding problem. A 2000 BIM report notes a HWM with Y = 2m. Drainage works were noted u/s in 1979.

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 = 0 km^2 (spill from drainage channel just u/s)
Q_p = ? cms.

Conclusion :

The channel capacity estimate is consistent with historic observations.

Recommended parameters : Y = 2.7 m, V = 1.1 m/s, Q = 15 cms.