BF 13573 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 :

HW was noted in May 1965 (Y = 1.8m). A 1961 report notes that water has been close to the deck several times (Y ~ 2.5m). Channel improvements were constructed in 1976.

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 = 45 km^2(not including canal supply)
Q_p = 37 cms.

Conclusion :

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

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