BF 00888 Local Road Over Driedmeat Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0003
B = 5 m, h = 2 m, T_h = 12 m
Use n = 0.045

At Bank Height : Y = 2.0 m, V = 0.5 m/s, Q = 8 cms
At Channel Capacity : Y = 3.0 m, V = 0.7 m/s, Q = 20 cms

Historical Highwater Data :

There are no direct HW observations at this site. A 2004 BIM report notes a HWM with Y = 2.8m, but this may include burial of the pipe.

WSC Gauge 05FA018 (DA = 1150km^2, 1976 – 1995) located d/s reports Q = 16cms in July 1983. Other nearby gauges suggest possible HW for this site in April 1974. The storm database indicates that the largest storms were June 1970 and June 1973 with about 100mm of rainfall.

Basin Runoff Potential :

d = 35mm, T_p = 20 hrs, q = 0.25 cms/km^2.
Gross DA = 980 km^2.
Q_p = 245 cms.

Conclusion :

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

Recommended parameters : Y = 3.0 m, V = 0.7 m/s, Q = 20 cms.