BF 06717 Local Road Over Driedmeat Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0006
B = 6 m, h = 1.6 m, T_h = 12 m
Use n = 0.045

At Bank Height : Y = 1.6 m, V = 0.6 m/s, Q = 8 cms
At Channel Capacity : Y = 2.4 m, V = 0.8 m/s, Q = 20 cms

Historical Highwater Data :

HW was noted in May 1956 (site could not be reached due to flooding, later report notes HWM to bottom of stringers, Y = 1.8m), and May 1982 (1.2m below deck, Y = 1.2m). A 1957 report confirms the 1956 observation and notes that water was over the grade to the east.

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 = 1150 km^2.
Q_p = 285 cms.

Conclusion :

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

Recommended parameters : Y = 2.4 m, V = 0.8 m/s, Q = 20 cms.