BF 08773 Local Road Over Kilini Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.003
B = 6 m, h = 1.8 m, T_h = 10 m
Use n = 0.05

At Bank Height : Y = 1.8 m, V = 1.3 m/s, Q = 18 cms
At Channel Capacity : Y = 2.7 m, V = 1.8 m/s, Q = 43 cms

Historical Highwater Data :

There is no HW data available for this site. HW was noted at BF70269 u/s in April 1956 with Y = 2.4m and estimated Q = 20cms. HWM was noted at BF71084 u/s (1956 and 1966 reports) with Y in the 2.4 – 2.7m range. HW was noted at BF13905 u/s in 1956, 1965, and 1986.

There are no WSC gauges on this stream. Gauges in the area report HW events in April 1971, April 1974, July 1986, and July 1990. The largest storms in the database for this area are June 1944 with about 150mm of rainfall, and July 1982 with about 120mm of rainfall.

Basin Runoff Potential :

d = 50mm, T_p = 20hrs, q = 0.7 cms/km^2.
Gross DA = 187 km^2.
Q_p = 130 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 = 1.8 m/s, Q = 43 cms.