BF 78229 Local Road Over Blackstone River
Hydrotechnical Summary

Channel Capacity :

S = 0.007
B = 25 m, h = 2.0 m, T_h = 40 m
Use AT equation

At Bank Height : Y = 2.0 m, V = 2.7 m/s, Q = 170 cms
At Channel Capacity : Y = 3.0 m, V = 3.7 m/s, Q = 380 cms

Historical Highwater Data :

The only HW observation at this site is a reference to HWM with Y = 2m in the 1992n BIM report. HW has been observed at BF77252 d/s in June 1980, July 1986, and July 1999.

WSC gauge 05DD002 (DA = 780km^2, no flow records) is located close to this site. Gauges in the area suggest HW events in June 1980, July 1986, and July 1999. The largest storms in the database for this area are August 1925, June 1952, July 1966, August 1969, June 1972, and July 1999 with about 100 - 110 mm of rainfall.

Basin Runoff Potential :

d = 75mm, T_p = 20hrs, q = 1.05cms/km^2
Gross DA = 660 km^2.
Q_p = 700 cms.

Conclusion :

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

Recommended parameters : Y = 3.0 m, V = 3.7 m/s, Q = 380 cms.