BF 13636 Local Road Over Death River
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 1.5 m, h = 1.0 m, T_h = 4 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 0.7 m/s, Q = 2 cms
At Channel Capacity : Y = 1.5 m, V = 1.0 m/s, Q = 4 cms

Historical Highwater Data :

HW was noted in April 1974 with Y = 1.6m (estimated Q = 4cms). A 1997 BIM report notes a HWM with Y = 0.8m. The 2002 design was based on Y = 0.7m and Q = 5cms.

There are no WSC gauges on this stream. Other gauges in the area suggest HW events in April 1963 and 1974. The largest storms in the area are in June of 1944, 1962, and 1970 (90 - 110 mm).

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
Gross DA = 12 km^2.
Q_p = 7 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.0 m/s, Q = 4 cms.