BF 01767 Local Road Over Driftwood River
Hydrotechnical Summary

Channel Capacity :

S = 0.0015
B = 25 m, h = 3 m, T_h = 45 m
Use AT equation

At Bank Height : Y = 3 m, V = 1.8 m/s, Q = 200 cms
At Channel Capacity : Y = 4 m, V = 2.3 m/s, Q = 350 cms

Historical Highwater Data :

HW was observed in July 1960 (Y ~ 3.5m). The 1960 design was based on Y ~ 3.7m.

WSC Gauge 07BK007 (DA ~ 2100km^2, 1968 – Now) reports Q ~ 350cms (July 1988, gauged near peak, ~ 4m stage rise), Q ~ 300cms (June 1970), and Q ~ 250cms (July 1971).

Basin Runoff Potential :

Gross DA = 2075 km^2.

Conclusion :

The channel capacity estimate is consistent with historic observations. Recommended parameters :

Y = 4.0 m, V = 2.3 m/s, Q = 350 cms.
EL 574.0 m (2883-P)