BF 76033 Highway 63 over House River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0008
B = 8m, h = 2.0 m, T_h = 12 m
Use n = 0.040

At Bank Height : Y = 2.0 m, V = 0.9 m/s, Q = 20 cms
At Channel Capacity : Y = 3.0 m, V = 1.3 m/s, Q = 40 cms

Historical Highwater Data :

The highest water level reported for this site was in 2006 with Y ~ 2.0m. The 1987 design was based on Y = 2.5m, Q = 21.5cms.

There are no WSC Gauges on this stream. There is a WSC gauge (07CB002, operating from 1982 - present) on the House River suggesting HW events in July 1996, May 1985, and July 1983. The storm database reports highest rainfall events in 1980 (135mm), and 1970 (125mm).

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
Gross DA = 130 km^2.
Q_p = 70 cms.

Conclusion :

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

Recommended parameters : Y = 3.0 m, V = 1.3 m/s, Q = 40 cms.