BF 75906 Highway 63 Over House River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.005
B = 5 m, h = 1.5 m, T_h = 10 m
Use n = 0.05

At Bank Height : Y = 1.5 m, V = 1.5 m/s, Q = 15 cms
At Channel Capacity : Y = 2.3 m, V = 2.1 m/s, Q = 40 cms

Historical Highwater Data :

A HWM of Y ~ 6.5' (2m) was noted in 1963 and Y ~ 5-6' (1.5-1.8m) in 1970. The 1988 design was based on Q = 32cms.

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 storms 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 = 85 km^2.
Q_p = 45 cms.

Conclusion :

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

Recommended parameters : Y = 2.3 m, V = 2.1 m/s, Q = 40 cms.