BF 73463 Hwy 35 Over Camp Creek
Hydrotechnical Summary

Channel Capacity :

S = 0.0005
B = 5.0 m, h = 2.2 m, T_h = 9 m
Use n = 0.045

At Bank Height : Y = 2.2 m, V = 0.6 m/s, Q = 10 cms
At Channel Capacity : Y = 3.2 m, V = 0.9 m/s, Q = 25 cms

Historical Highwater Data :

HW was noted in 1957 (Y = 2.5m, estimated Q = 21cms), and in May 1963 (0.2m above crown, modelling suggests Q ~ 20cms if no blockage). The 1961 design was based on Y = 2.7m and Q = 28cms. A 1991 BIM report notes a HWM with Y = 2.4m.

There are no gauges on this stream. Gauges in the area suggest HW events in June 1977, and May 1979. The storm database notes close to 100mm in August 1993 and June 1988.

Basin Runoff Potential :

d = 40mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 190 km^2.
Q_p = 100 cms.

Conclusion :

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

Recommended parameters : Y = 3.2m, V = 0.9 m/s, Q = 25 cms.