BF 75623 Hwy 2 Over Wolf Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.001
B = 8 m, h = 2.5 m, T_h = 15 m
Use n = 0.04

At Bank Height : Y = 2.5 m, V = 1.1 m/s, Q = 30 cms
At Channel Capacity : Y = 3.5 m, V = 1.5 m/s, Q = 65 cms

Historical Highwater Data :

The 1963 design was based on Y = 3.6m and a 2003 photo shows a HWM with Y ~ 1.5m.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974 and July 1990. The largest storm in the storm database is June 1970 with about 110mm of rainfall.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 344 km^2.
Q_p = 190 cms.

Conclusion :

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

Recommended parameters : Y = 3.5 m, V = 1.5 m/s, Q = 65 cms.