BF 72002 Hwy 13 Over Driedmeat Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.001
B = 3 m, h = 1.2 m, T_h = 7 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.5 m/s, Q = 3 cms
At Channel Capacity : Y = 1.8 m, V = 0.8 m/s, Q = 8 cms

Historical Highwater Data :

HW was observed in April 1974 with water 0.5m over the road, 1.7m above u/s invert, 1.2m drop across structure (Y = 1.8m d/s), Q in pipe = 3cms, total Q estimated at 10cms in 1974 report.

There are no gauges on this stream. Gauges in the area suggest large runoff events in April 1974, and March 1985. No storms in the storm database exceed 100mm for this area.

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, q = 0.25 cms/km^2.
Gross DA = 165 km^2.
Q_p = 40 cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 0.8 m/s, Q = 8 cms.