BF 08822 Local Road Over Anderson Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.001
B = 8 m, h = 4.0 m, T_h = 16 m
Use n = 0.04

At Bank Height : Y = 4.0 m, V = 1.5 m/s, Q = 70 cms
At Channel Capacity : Y = 5.0 m, V = 1.8 m/s, Q = 120 cms

Historical Highwater Data :

HW was noted in 1955 (Y ~ 4m, close to deck), and July 1990 (close to deck, Y > 5m, some erosion).

There are no WSC gauges on Anderson Ck. Gauges on the Blindman River d/s suggest HW events in 1974, 1981, 1986, 1990, and 2000. The largest storms in the storm database for this area are July 1990 (140mm), July 1982 and July 1986 (120mm).

Basin Runoff Potential :

d = 70mm, T_p = 20hrs, q = 1.0 cms/km^2.
Gross DA = 153 km^2.
Q_p = 153 cms.

Conclusion :

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

Recommended parameters : Y = 5.0 m, V = 1.8 m/s, Q = 120 cms.