BF 72563 Local Road Over Grizzly Bear Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0006
B = 5 m, h = 1.8 m, T_h = 10 m
Use n = 0.045

At Bank Height : Y = 1.8 m, V = 0.6 m/s, Q = 8 cms
At Channel Capacity : Y = 2.7 m, V = 0.8 m/s, Q = 20 cms

Historical Highwater Data :

Reports from 1952 – 1960 note HWM over the grade (Y ~ 2 – 2.5m) and estimate Q = 20cms.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1973, April 1974, April 1979, April 1990, and April 1997. The largest storms in the database for this area are 120mm in August 1931 and 110mm in June 1973.

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, q = 0.25 cms/km^2.
Gross DA = 530 km^2.
Q_p = 130 cms.

Conclusion :

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

Recommended parameters : Y = 2.7 m, V = 0.9 m/s, Q = 20 cms.