BF 70924 Local Road Over Saddlelake Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0022
B = 1.5 m, h = 0.7 m, T_h = 3 m
Use n = 0.055

At Bank Height : Y = 0.7 m, V = 0.5 m/s, Q = 1 cms
At Channel Capacity : Y = 1.2 m, V = 0.8 m/s, Q = 3 cms

Historical Highwater Data :

A 1967 report notes a HWM with Y = 1.2m and estimates Q = 5cms. A 2002 BIM report notes a HWM with Y = 0.8m.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in July 1970, April 1971, April 1974, and June 1997. The largest storms in the storm database are about 100mm in June 1944, 1962, 1970, and 1973.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 6 km^2.
Q_p = 4 cms.

Conclusion :

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

Recommended parameters : Y = 1.2 m, V = 0.8 m/s, Q = 3 cms.