BF 71501 Local Road Over Mishow Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 4 m, h = 1.6 m, T_h = 9 m
Use n = 0.045

At Bank Height : Y = 1.6 m, V = 1.1 m/s, Q = 12 cms
At Channel Capacity : Y = 2.4 m, V = 1.7 m/s, Q = 30 cms

Historical Highwater Data :

HW was noted in May 1954 (culvert washout, over grade) and in July 1978 (0.6m over deck, drift jam, est. Q = 28cms). A 1997 BIM report notes a HWM with Y = 3m (no description).

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in June 1965, July 1971, April 1974, and August 1989. The largest storms in the storm database are 160mm of rainfall in June 1944, 140mm in July 1982, and about 130mm in June 1965 and August 1969.

Basin Runoff Potential :

d = 50 - 60 mm, T_p = 20 hrs, q = 0.75 cms/km^2.
Gross DA = 46 km^2.
Q_p = 35 cms.

Conclusion :

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

Recommended parameters : Y = 2.4 m, V = 1.7 m/s, Q = 30 cms.