BF 77807 Local Road Over Beaver River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.01
B = 2 m, h = 1.2 m, T_h = 5 m
Use n = 0.06

At Bank Height : Y = 1.2 m, V = 1.3 m/s, Q = 6 cms
At Channel Capacity : Y = 1.8 m, V = 2.0 m/s, Q = 14 cms

Historical Highwater Data :

A 1972 report notes a HWM with Y = 1.5m and estimates Q = 7cms. A 2000 BIM report notes a HWM with Y = 1.5m.

There are no gauges on this stream. Gauges in the area suggest large runoff events in July 1970, April 1974, April 1985, and April 1996. The largest storms in the storm database are 100mm in June 1962, June 1970, and June 1973.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
Gross DA = 49 km^2.
Q_p = 27 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 = 2.0 m/s, Q = 14 cms.