BF 70489 Hwy 16 Over Mink Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.003
B = 1.5 m, h = 0.8 m, T = 3 m
Use n = 0.05.

At Bank Height : Y = 0.8 m, V = 0.7 m/s, Q = 1 cms
At Channel Capacity : Y = 1.3 m, V = 1.1 m/s, Q = 3 cms

Historical Highwater Data :

A 1958 report notes a HWM with Y = 0.9m and estimates Q = 3cms. The 1974 design was based on Q = 4cms.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1974, July 1982, July 1986, and July 1990. The storm database reports about 140mm of rainfall in July 1982 and June 1944, and about 100mm in July 1937, July 1953, June 1965, and July 1986.

Basin Runoff Potential :

d = 50mm, T_p = 20hrs, q = 0.7 cms/km^2.
Gross DA = 6 km^2.
Q_p = 4 cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 1.1 m/s, Q = 3 cms.