BF 78335 Hwy 663 Over Lac La Biche Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0015
B = 1 m, h = 1.0m, T = 3 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 0.5 m/s, Q = 1 cms
At Channel Capacity : Y = 1.5 m, V = 0.8 m/s, Q = 3 cms

Historical Highwater Data :

A 1978 report notes a HWM with Y = 1.2m and estimates Q = 3 – 4cms. A 2000 BIM report notes a HWM with Y = 2m (backwater due to beaver dam).

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1974 and 1996. The largest storms in the storm database are June 1962, 1970, and 1973 with about 105mm of rainfall.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
DA = 5 km^2.
Q_p = 3 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 0.8 m/s, Q = 3 cms.