BF 79290 Hwy 02 Over Assineau River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.02 (break in slope at site)
B = 1.5 m, h = 1.2m, T_h = 3 m
Use n = 0.06

At Bank Height : Y = 1.2m, V = 2.2m/s, Q = 6 cms
At Channel Capacity : Y = 1.8m, V = 3.1m/s, Q = 14 cms

Historical Highwater Data :

HW was observed at this site in July 1983 with water over the road, Y = 1.8m d/s (likely included scour), Q estimated at 6.5cms (may not have considered the blockage at the inlet), and significant d/s erosion exposing a cobble bed. A photo from 1995 shows water ponded to above ½ full at the outlet, indicating the presence of a d/s hydraulic control (possibly beaver dam or channel blockage).

There are no gauges on this stream. Gauges in the area suggest large runoff events in June 1983, July 1988, and June 1996. There are no storms in the storm database exceeding 100mm for this area.

Basin Runoff Potential :

d = 70mm (near edge of 90mm and 60mm areas), T_p = 20hrs, q = 1.0 cms/km^2.
Gross DA = 5 km^2.
Q_p = 5 cms.

Conclusion :

Basin runoff potential governs for this site and is in the range of the historic observations.

Recommended parameters : Y = 1.2m, V = 2.2m/s, Q = 5 cms.