BF 77589 Hwy 734 Over Otter Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.03
B = 4 m, h = 1.0 m, T_h = 6 m
Use n = 0.045

At Bank Height : Y = 1.0 m, V = 3.1 m/s, Q = 15 cms
At Channel Capacity : Y = 1.5 m, V = 4.4 m/s, Q = 35 cms

Historical Highwater Data :

A 1970 report notes a HWM with Y = 1.5m and a 1975 report notes a HWM with Y = 0.6m. A photo from 2000 notes icing to about 1m below the bottom flange.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1972, June 1980, July 1981, and July 1999. The largest storms in the database for this area are June 1972 with 125mm of rainfall, and August 1925, June 1970, and July 1981 with 105mm.

Basin Runoff Potential :

d = 80 mm, T_p = 20 hrs, q = 1.1 cms/km^2
Gross DA = 6.5 km^2.
Q_p = 7 cms.

Conclusion :

Basin runoff potential governs for this site and is consistent with historic observations. Higher levels may result due to icing, beavers etc.

Recommended parameters : Y = 0.7 m, V = 2.5 m/s, Q = 7 cms.