BF 73159 Hwy 734 Over Yara Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.015
B = 4 m, h = 1.2 m, T_h = 7 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 2.2 m/s, Q = 14 cms
At Channel Capacity : Y = 1.8 m, V = 3.1 m/s, Q = 34 cms

Historical Highwater Data :

HW was observed in June 1990 with Y = 1.7m and a 1975 report notes a HWM with Y = 1.2m.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1970, May – June 1990, and June 1995. The largest storms in the database for this area are June 1970 with 125mm of rainfall, and June 1928 and June 1972 with 100mm.

Basin Runoff Potential :

d = 80 mm, T_p = 20 hrs, q = 1.1 cms/km^2
Gross DA = 28 km^2.
Q_p = 30 cms.

Conclusion :

Basin runoff potential governs for this site and is consistent with historic observations.

Recommended parameters : Y = 1.7 m, V = 3.0 m/s, Q = 30 cms.