BF 77475 Hwy 734 Over Yara Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.01
B = 6 m, h = 1.2 m, T_h = 10 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 1.9 m/s, Q = 18 cms
At Channel Capacity : Y = 1.8 m, V = 2.6 m/s, Q = 40 cms

Historical Highwater Data :

A 1975 report notes a HWM with Y = 1.8m and estimates Q = 19cms.

There are no WSC gauges on this stream. Nearby gauges suggest HW events in May and June 1990. The largest storms in this area in the storm database are June 1970 (125mm) and June 1928 (105mm).

Basin Runoff Potential :

d = 70 mm, T_p = 20 hrs, q = 1.0 cms/km^2.
Gross DA = 51 km^2.
Q_p = 51 cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 2.6 m/s, Q = 40 cms.