BF 77797 Hwy 734 Over South Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.08
B = 3 m, h = 1 m, T_h = 5 m
Use n = 0.06

At Bank Height : Y = 1.0 m, V = 3.7 m/s, Q = 15 cms
At Channel Capacity : Y = 1.5 m, V = 5.3 m/s, Q = 35 cms

Historical Highwater Data :

The 1970 report notes a HWM with Y = 1.5m, and a 1975 report notes a HWM with Y = 0.9m.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in August 1969, June 1972, June 1980, July 1981, and July 1999. The largest storms in the database for this area are July 1981 with 155mm of rainfall, June 1972 with 125mm, and August 1925, June 1952, and June 1970 with 110mm.

Basin Runoff Potential :

d = 80 mm, T_p = 20 hrs, q = 1.1 cms/km^2
Gross DA = 6 km^2.
Q_p = 7 cms.

Conclusion :

Basin runoff potential governs for this site and is consistent with historic observations. Higher water levels may result from icing, beaverdams, drift etc.

Recommended parameters : Y = 0.7 m, V = 3.0 m/s, Q = 7 cms.