BF 73169 Hwy 734 Over Bridgeland Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.02
B = 5 m, h = 1.2 m, T_h = 7 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 2.6 m/s, Q = 18 cms
At Channel Capacity : Y = 1.8 m, V = 3.7 m/s, Q = 40 cms

Historical Highwater Data :

Reports from 1970 and 1975 refer to HWM with Y = 0.9m.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1965, June 1972, June 1990, and June 1995. The largest storms in the database for this area are June 1970 with about 115mm of rainfall, and June 1928 and June 1972 with 95mm.

Basin Runoff Potential :

d = 75mm, T_p = 20hrs, q = 1.05cms/km^2
Gross DA = 19 km^2.
Q_p = 20 cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 2.7 m/s, Q = 20 cms.