BF 77590 Hwy 734 Over Cripple Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.012
B = 6 m, h = 1.5 m, T_h = 10 m
Use n = 0.045

At Bank Height : Y = 1.5 m, V = 2.6 m/s, Q = 30 cms
At Channel Capacity : Y = 2.3 m, V = 3.7 m/s, Q = 70 cms

Historical Highwater Data :

A report from 1975 refers to a HWM with Y = 1.1m and Q = 26cms.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1972, June 1980, July 1986, and July 1999. The largest storms in the database for this area are June 1972 with about 125mm of rainfall, and August 1925, June 1952, June 1970, and July 1981 with 105mm.

Basin Runoff Potential :

d = 80mm, T_p = 20hrs, q = 1.1cms/km^2
Gross DA = 65 km^2.
Q_p = 70 cms.

Conclusion :

The channel capacity estimate is consistent with historic information and matches the basin runoff potential.

Recommended parameters : Y = 2.3 m, V = 3.7 m/s, Q = 70 cms.