BF 77914 Local Road Over Ross Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.017
B = 1 m, h = 0.5 m, T_h = 3 m
Use n = 0.055

At Bank Height : Y = 0.5 m, V = 1.1 m/s, Q = 1 cms
At Channel Capacity : Y = 1.0 m, V = 2.1 m/s, Q = 5 cms

Historical Highwater Data :

A 1973 report estimates Q = 3cms.

There are no gauges on this stream. Gauges in the area suggest HW events in 1950's, March 1994, and June 2002. The storm database notes storms in June 2002 (170mm), June 1998 (135mm), and September 1986 (80mm).

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, use q = 0.35 cms/km^2 (Cypress Hills)
Gross DA = 6 km^2.
Q_p = 2 cms.

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 0.7 m, V = 1.5 m/s, Q = 2 cms.