BF 73209 Local Road Over Waskwei Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0004
B = 4 m, h = 1.2 m, T_h = 7 m
Use n = 0.04

At Bank Height : Y = 1.2 m, V = 0.4 m/s, Q = 3 cms
At Channel Capacity : Y = 1.8 m, V = 0.6 m/s, Q = 7 cms

Historical Highwater Data :

A 1956 note and a 1961 report note HWM to the bottom of stringer, with Y ~ 1.2m, and estimated Q = 7cms.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1974, July 1983 and April 1997. The largest storm in the storm database is about 115mm of rainfall in June 1965.

Basin Runoff Potential :

d = 35 mm, T_p = 40 hrs, q = 0.25 cms/km^2.
Gross DA = 400 km^2.
Q_p = 100 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 = 0.6 m/s, Q = 7 cms.