BF 74323 Local Road Over Nose Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.001
B = 5 m, h = 1.5 m, T_h = 8 m
Use n = 0.045

At Bank Height : Y = 1.5 m, V = 0.7 m/s, Q = 7 cms
At Channel Capacity : Y = 2.3 m, V = 1.0 m/s, Q = 16 cms

Historical Highwater Data :

A 1954 report notes a HWM over the grade with Y = 1.2 – 1.5m.

There are no gauges on this stream. Gauges in the area suggest HW events in 1916, 1917, may 1967, June 1969, June 1970, and June 1995. The largest storms in the database for this area are June 1928 with about 105mm of rainfall and June 1970 with about 120mm.

Basin Runoff Potential :

d = 40mm (near border between d = 60mm and d = 15mm), T_p = 20hrs, use q = 0.5 cms/km^2.
Gross DA = 41 km^2.
Q_p = 20 cms.

Conclusion :

The channel capacity estimate is consistent with historic observations and is within the basin runoff potential.

Recommended parameters : Y = 2.3 m, V = 1.0 m/s, Q = 16 cms.