BF 09804 Local Road Over Poplar Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 3 m, h = 2.0 m, T = 6 m
Use n = 0.05

At Bank Height : Y = 2.0 m, V = 1.1 m/s, Q = 10 cms
At Channel Capacity : Y = 3.0 m, V = 1.7 m/s, Q = 25 cms

Historical Highwater Data :

A 1967 report notes a HWM close to the deck (Y = 3m) and estimates Q = 20 – 23cms.

There are no WSC gauges on this stream. Gauges in the area suggest runoff events in July 1982, July 1986, July 1990, and July 1999. The storm database indicates about 130mm of rainfall in July 1982, July 1986, and July 1990.

Basin Runoff Potential :

d = 70 mm, T_p = 20 hrs, q = 1.0 cms/km^2.
Gross DA = 23 km^2.
Q_p = 23 cms.

Conclusion :

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

Recommended parameters : Y = 3.0 m, V = 1.7 m/s, Q = 25 cms