BF 01520 Local Road Over Pointe Aux Pins Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.005
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 1.0 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 1.5 m/s, Q = 8 cms

Historical Highwater Data :

HW was noted in 1955 with Y = 1.3m.

WSC gauge 05EB909 (1983 – 1995, DA = 17 km^2) reports Q = 3.5cms in June 1983. Other gauges in the area suggest a HW event in April 1974. The storm database shows 130mm in June 1965, and 90mm in June 1983.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 15 km^2.
Q_p = 8 cms.

Conclusion :

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

Recommended Parameters : Y = 1.5 m, V = 1.5 m/s, Q = 8 cms.