BF 00316 Local Road Over Riviere Qui Barre Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0018
B = 3 m, h = 1.2 m, T_h = 7 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.7 m/s, Q = 4 cms
At Channel Capacity : Y = 1.8 m, V = 1.1 m/s, Q = 11 cms

Historical Highwater Data :

A 1958 report notes a HWM to the bottom of the stringers (Y = 6'). A 1957 report notes HW to 1.5' below the stringers, but with water over the grade.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1971, 1974, and 1985. The largest storm for this area in the storm database is about 160 mm of rainfall in July 1953, with about 110mm in July 1937, June 1952, and July 1986.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 47 km^2.
Q_p = 25 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 = 1.1 m/s, Q = 11 cms.