BF 70189 Local Road Over Mud Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.009
B = 3 m, h = 1.3 m, T_h = 6 m
Use n = 0.055

At Bank Height : Y = 1.3 m, V = 1.5 m/s, Q = 9 cms
At Channel Capacity : Y = 2.0 m, V = 2.2 m/s, Q = 22 cms

Historical Highwater Data :

HW was noted in fall 1943 (washout), 1948 (washout), July 1986 (Y = 1.5m), and June 1990 (Y = 2m). A 1961 report notes a HWM with Y = 2.4m and estimates Q = 17cms.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1965, June 1972, July 1981, July 1986, June 1990, and July 1999. The largest storms for this area in the database are June 1972 (130mm), and August 1925, June 1970, and June 1981 (100mm).

Basin Runoff Potential :

d = 60mm, T_p = 20hrs, q = 0.83 cms/km^2.
Gross DA = 60 km^2.
Q_p = 50 cms (Q_p = 15 cms based on capacity at BF77497 u/s).

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 1.6 m, V = 1.9 m/s, Q = 15 cms.