BF 78297 Local Road Over Chance Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.022
B = 1.5 m, h = 0.7 m, T_h = 4 m (LIDAR)
Use n = 0.06

At Bank Height : Y = 0.7 m, V = 1.4 m/s, Q = 3 cms
At Channel Capacity : Y = 1.2 m, V = 2.4 m/s, Q = 9 cms

Historical Highwater Data :

A 1971 report notes a HWM with Y ~ 1.5m and a 1975 report notes a HWM with Y ~ 0.8m. The 1983 design was based on Q ~ 7cms.

There are no gauges on this stream. Gauges in the area suggest large events in 1969, and 1980. The storm database suggests large rainfall events in July 1987 (~ 170mm), June 1980 (~150mm), Aug. 1969 (140mm), and June 1958 (~ 130mm).

Basin Runoff Potential :

d ~ 70 – 80mm (Q ~ 1 – 1.1cms/km^2)
DA = 7km^2
Q_p ~ 8cms

Conclusion :

Basin runoff potential governs and is consistent with historic observations.

Recommended parameters : Y = 1.1m , V = 2.2 m/s, Q = 8 cms.