BF 08971 Local Road Over Driedmeat Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.001
B = 5 m, h = 1.4 m, T_h = 9 m
Use n = 0.05

At Bank Height : Y = 1.4 m, V = 0.6 m/s, Q = 6 cms
At Channel Capacity : Y = 2.1 m, V = 0.9 m/s, Q = 15 cms

Historical Highwater Data :

There are no direct HW observations at this site. A report from 1957 notes a HWM to the bottom of the girders (Y = 1.2m) and estimates Q = 12cms.

There are no gauges on this stream. Gauges in the area suggest large runoff events in April 1974, and March 1985. No storms in the storm database exceed 100mm for this area.

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, q = 0.25 cms/km^2.
Gross DA = 132 km^2.
Q_p = 33 cms.

Conclusion :

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

Recommended parameters : Y = 2.1 m, V = 0.9 m/s, Q = 15 cms.