BF 13753 Local Road Over Poison Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.01
B = 2 m, h = 1.5 m, T_h = 5 m
Use n = 0.055

At Bank Height : Y = 1.5 m, V = 1.6 m/s, Q = 9 cms
At Channel Capacity : Y = 2.3 m, V = 2.5 m/s, Q = 22 cms

Historical Highwater Data :

A 1955 report notes a HWM with Y = 1.5m. A 1998 BIM report notes a HWM with Y = 5m u/s of the culvert based on drift.

There are no WSC gauges on this stream. Nearby gauges suggest large runoff events in August 1989 and June 1965. The largest storms in the database are June 1944 (140mm), and July 1939 and June 1965 (120mm).

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 26 km^2.
Q_p = 22 cms.

Conclusion :

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

Recommended parameters : Y = 2.3 m, V = 2.5 m/s, Q = 22 cms.