BF 74549 Local Road Over Strawberry Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0008
B = 7 m, h = 2.5 m, T_h = 14 m
Use n = 0.04

At Bank Height : Y = 2.5 m, V = 1.0 m/s, Q = 30 cms
At Channel Capacity : Y = 3.5 m, V = 1.4 m/s, Q = 60 cms

Historical Highwater Data :

A 1969 report notes a HWM with Y = 1.5m and a 2000 BIM report notes a HWM with Y = 2.1m.

There are no WSC gauges on this stream. Nearby gauges suggest HW events in 1917, 1983, 1988, and 1996. The largest storm in the storm database for this area is July 1988 (140mm) with other large storms in 1961, 1979, 1983, 1993 and 1996.

Basin Runoff Potential :

d = 75 mm, T_p = 20 hrs, use q = 1.1 cms/km^2.
Gross DA = 150 km^2.
Q_p = 165 cms.

Conclusion :

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

Recommended parameters : Y = 3.5 m, V = 1.4 m/s, Q = 60 cms.