# BF 08523 Local Road Over Carrot Ck
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.0018
B = 9 m, h = 4 m, $T_h$ = 18 m
Use n = 0.04

At Bank Height : Y = 4.0 m, V = 2.0 m/s, Q = 110 cms
At Channel Capacity : Y = 5.0 m, V = 2.5 m/s, Q = 180 cms

**Historical Highwater Data :**

HW was noted in July 1986 (Y = 5m, east approach washed out). A 1953 report notes a HWM with Y = 3.5m.

There are no WSC gauges on Carrot Ck. Nearby gauges suggest HW in July 1986. The storm database shows rainfall of about 140mm in June 1944.

**Basin Runoff Potential :**

d = 60 mm, $T_p$ = 20 hrs, q = 0.83 cms/km$^2$.
Gross DA = 224 km$^2$.
$Q_p$ = 185 cms.

**Conclusion :**

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

Recommended parameters : Y = 5.0 m, V = 2.5 m/s, Q = 180 cms.