# BF 08608 Local Road Over Irvine Ck
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.0025
B = 3 m, h = 1.2 m, T = 5 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.9 m/s, Q = 4 cms
At Channel Capacity : Y = 1.8 m, V = 1.2 m/s, Q = 10 cms

**Historical Highwater Data :**

HW was observed in 1955 over the grade and to the bottom of the stringers (Y = 1.5 – 1.8m), and in 1963 to 0.3m below the u/s crown (Y = 1.2 – 1.5m).

There are no WSC gauges on this stream. Gauges in the area indicate the largest runoff event to be April 1974, with others in July 1990 and April 1982. The largest storms for this area in the database are June 1965 with about 130mm of rainfall, and July 1937 with about 110mm.

**Basin Runoff Potential :**

d = 40 mm, $T_p$ = 20 hrs, q = 0.55 cms/$km^2$.
DA = 89 $km^2$.
$Q_p$ = 49 cms.

**Conclusion :**

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

Recommended parameters : Y = 1.8 m, V = 1.2 m/s, Q = 10 cms.