# BF 06982 SH 622 over Strawberry Creek Tributary
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.006
B = 3 m, h = 1.2 m, $T_h$ = 5 m
Use n = 0.05

At Bank Height: Y = 1.2 m, V = 1.3 m/s, Q = 6 cms
At Channel Capacity: Y = 1.8 m, V = 1.9 m/s, Q = 15 cms

**Historical Highwater Data :**

HW was noted in 1911 with a washout, and headslope washouts were noted in 1953 and 1954. A large erosion bowl was noted downstream in 1991, and all the riprap protection was washed away.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1974, July 1982, July 1986, and July 1990. The largest storms in the database for this basin are about 180mm in June 1944 and 130mm in July 1982 and July 1990.

**Basin Runoff Potential :**

d = 50-60 mm, $T_p$ = 20 hrs, q = 0.75 cms/$km^2$.
Gross DA = 27 $km^2$.
$Q_p$ = 20 cms.

**Conclusion :**

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

Recommended parameters : Y = 1.8 m, V = 1.9 m/s, Q = 15 cms.