10/1/2010

BF 79282 Hwy 657 Over Tributary to Muriel Lake
Hydrotechnical Summary

Channel Capacity :

S = 0.002
B = 2.5 m, h = 1 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.5 m, V = 1.0 m/s, Q = 7 cms
At Channel Capacity : Y = 1.0 m, V = 0.7 m/s, Q = 3 cms

Historical Highwater Data :

No HW events were recorded for this site.

There are no WSC Gauges on this stream. Gauges in the area suggest large events in 1962 and 1974. The storm database reports large storms in the area in June 1962 (120mm) and June 1988 (110mm).

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.56 cms/km^2.
Gross DA = 45 km^2.
Q_p = 25 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.0 m/s, Q = 7 cms.