BF 73423 Hwy 2A Over Gunns Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.006
B = 3 m, h = 2 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 2.0 m, V = 1.7 m/s, Q = 15 cms
At Channel Capacity : Y = 3.0 m, V = 2.6 m/s, Q = 40 cms

Historical Highwater Data :

HW was noted in June 1996 (4 – 5m above u/s crown, large drift accumulation, estimated Q = 25 – 30cms), and March 2000 (Y = 4m u/s, estimated Q = 20cms). The 1960 design was based on Q = 14cms. A 1983 inspection noted a HWM 3m above the u/s crown.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in May 1979, June 1996, and April 1997. The largest events in the storm database are about 100mm in July 1983 and June 1993.

Basin Runoff Potential :

d = 60mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 83 km^2.
Q_p = 70 cms.

Conclusion :

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

Recommended parameters : Y = 3.0 m, V = 2.6 m/s, Q = 40 cms.