BF 72633 Highway 1A Over Waskasoo Creek
Hydrotechnical Summary

Channel Capacity :

S = 0.0008
B = 3.5 m, h = 1.8 m, Th = 9m
Use n = 0.05

At Bank Height : Y = 1.8 m, V = 0.6 m/s, Q = 7 cms
At Channel Capacity : Y = 2.7 m, V = 0.9 m/s, Q = 18 cms

Historical Highwater Data :

The 1998 design was based on Q~25cms (V~1m/s).

WSC Gauge 05CC011 (DA~167km^2, operating 1984 – present) reports high flow events in April 1996 (Q~25cms), July 2007 (Q~25cms), and April 1997 (Q~20cms).

The storm on basin tool reports large rainfall events in July 1937 (125mm), August 1938 (120mm), and June 1970 (115mm).

Basin Runoff Potential :

d=40mm, Tp = 20 hrs, q = 0.56 cms/km^2
Gross DA= 260 km^2
Qp= 145 cms

Conclusion :

The channel capacity values are within the basin runoff potential :

Y=2.7m, V=0.9m/s, Q=18cms