BF 07294 Highway 661 Over Tawatinaw River
Hydrotechnical Summary

Channel Capacity :

S = 0.006
B = 3 m, h = 2 m, T_h = 8 m
Use n = 0.055

At Bank Height : Y = 2 m, V = 1.6 m/s, Q = 17 cms
At Channel Capacity : Y = 3 m, V = 2.4 m/s, Q = 45 cms

Historical Highwater Data :

The 2001 design was based on Q~45cms (Y~3.2m).

There are no gauges on this river. Nearby gauges in the area suggest high flow events in April 1971, 1974, 1979, and 1997.

The storm on basin tool reports large rainfall events in July 1953 (100mm) and June 1970 (100mm),

Basin Runoff Potential :

d=40mm, Tp = 20 hrs, q = 0.56 cms/km^2
Gross DA= 335 km^2
Qp= 190 cms

Conclusion :

The channel capacity values are within the basin runoff potential :

Y=3.0m, V=2.4m/s, Q=45cms