BF 71006 Hwy 18 Over Paddle River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.00025
B = 4 m, h = 1.8 m, T_h = 8 m
Use n = 0.045

At Bank Height : Y = 1.8 m, V = 0.4 m/s, Q = 4 cms
At Channel Capacity : Y = 2.7 m, V = 0.6 m/s, Q = 10 cms

Historical Highwater Data :

HW was noted in April 1997 with water overbank and frozen in place. A 1955 report estimates Q = 11cms. A 1956 report notes a HWM with Y = 2.7m. A 1966 report suggests Q = 20cms.

There are no gauges on this stream. Gauges in the area suggest large runoff events in June 1965, July 1971, and April 1974. The largest storms in the storm database are 200mm of rainfall in August 1957, and 130mm in June 1965.

Basin Runoff Potential :

d = 50mm, T_p = 20hrs, q = 0.7 cms/km^2.
Gross DA = 255 km^2.
Q_p = 180 cms.

Conclusion :

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

Recommended parameters : Y = 2.7 m, V = 0.6 m/s, Q = 10 cms.