BF 77827 Hwy 22 Over Paddle River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 0.7 m/s, Q = 2 cms
At Channel Capacity : Y = 1.5 m, V = 1.1 m/s, Q = 5 cms

Historical Highwater Data :

HW was noted in August 1974 with water over the road at a small culvert crossing (Y = 1.8m u/s. Q = 5cms if no blockage) and a flooding complaint u/s (second pipe added).

There are no gauges on this stream. Gauges in the area suggest large runoff events in June 1965, July 1971, April 1974, April 1982, and July 1986. The largest storms in the storm database are 155mm of rainfall in June 1944, 135mm in June 1965, and 105mm in August 1969 and July 1978.

Basin Runoff Potential :

d = 50mm, T_p = 20hrs, q = 0.7 cms/km^2.
Gross DA = 17 km^2.
Q_p = 12 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.1 m/s, Q = 5 cms.