BF 72183 Local Road Over Saddle River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.014
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.06

At Bank Height : Y = 1.0 m, V = 1.3 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 2.0 m/s, Q = 10 cms

Historical Highwater Data :

A 1960 report estimates Q = 3cms. A 1996 BIM report notes a HWM with Y = 1.5m. The 2001 assessment notes drift above the u/s crown.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1968, April 1974, June 1990, and April 1997. The largest storms in the storm database are 115mm of rainfall in July 1935, August 1982, and June 1990.

Basin Runoff Potential :

d = 60mm, T_p = 20hrs, q = 0.83 cms/km^2.
Gross DA = 11 km^2.
Q_p = 9 cms.

Conclusion :

Basin runoff potential governs for this site and is consistent with historic observations.

Recommended parameters : Y = 1.5 m, V = 2.0 m/s, Q = 10 cms.