BF 70313 Local Road Over Lobstick River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.013
B = 1 m, h = 1.0 m, T_h = 3 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.3 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 2.1 m/s, Q = 7 cms

Historical Highwater Data :

HW was noted in 2001 with the culvert washing out and road closed. A 1950 report estimates Q = 4 – 6cms. A 1967 report estimates Q = 3cms. A 1999 BIM report notes a HWM with Y = 2m (likely based on drift above u/s crown of small culvert).

There are no WSC gauges on this stream. Gauges in the area suggest runoff events in June 1965, April 1974, July 1986, and July 1990. The storm database indicates 155mm of rainfall for this area in June 1944, with about 130mm in June 1965, 115mm in August 1969, and 105mm in July 1986.

Basin Runoff Potential :

d = 50 mm, T_p = 20 hrs, q = 0.7 cms/km^2.
Gross DA = 7 km^2.
Q_p = 5 cms.

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 1.3 m, V = 1.8 m/s, Q = 5 cms