BF 73708 Hwy 37 Over Sturgeon River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 2 m, h = 1.0 m, T_h = 5 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 0.7 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 1.1 m/s, Q = 6 cms

Historical Highwater Data :

There are no HW observations for this site.

There are no gauges on this stream. Gauges in the area suggest large runoff events in April 1971, 1974, 1982, 1985, and 1997. The largest storms in the database for this area are 145mm of rainfall in July 1953, 125mm in June 1965, 115mm in July 1990, and 105mm in July 1988.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
Gross DA = 14 km^2.
Q_p = 8 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 = 6 cms.