BF 13654 Highway 16 Over Brule Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.009
B = 1 m, h = 0.8 m, T_h = 3 m
Use n = 0.055

At Bank Height : Y = 0.8 m, V = 1.0 m/s, Q = 1.5 cms
At Channel Capacity : Y = 1.3 m, V = 1.7 m/s, Q = 5 cms

Historical Highwater Data :

A 1952 report estimates Qmax = 5cms. A highwater event was noted in 1986 but without reference to flow or water depth.

There are no gauges on this stream. Gauges in the area suggest HW events in April 1974, July 1986 and August 1989. The largest storm in the storm database is June 1993 with about 115mm of rainfall.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 15 km^2.
Q_p = 13cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 1.7 m/s, Q = 5 cms.