BF 75364 Highway 61 Over Rogers Coulee
Hydrotechnical Summary

Channel Capacity :

S = 0.004
B = 3 m, h = 1 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 1.0 m/s, Q = 4.5 cms
At Channel Capacity : Y = 1.5 m, V = 1.4 m/s, Q = 10 cms

Historical Highwater Data :

A 1990 BIM reports a HWM of Y~1m.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in March 1943 and June 2002. The largest storms for this area in the storm database are in June 2002 with about 135 mm of rainfall and in September 1986 with about 100mm of rainfall.

Basin Runoff Potential :

d = 35 mm, T_p = 20 hrs, q = 0.35 cms/km^2 (Cypress Hills)
Gross DA = 25 km^2.
Q_p = 8 cms.

Conclusion :

The basin runoff potential governs for this site.

Recommended parameters : Y = 1.3 m, V = 1.2 m/s, Q = 8 cms.