BF 70594 Hwy 35 Over Notikewin River
Hydrotechnical Summary

Channel Capacity :

S = 0.0018
B = 40 m, h = 4.5 m, T_h = 70 m
Use AT equation

At Bank Height : Y = 4.5 m, V = 2.6 m/s, Q = 650 cms
At Channel Capacity : Y = 5.5 m, V = 3.1 m/s, Q = 1000 cms

Historical Highwater Data :

HW was observed in 1934 (Y ~ 5.5m). The 1953 design was based on Y ~ 5.5m.

WSC Gauge 07HC001 (DA ~ 4680 km^2, 1961 – Now) reports Q ~ 570 cms (May 1964), and Q ~ 460 – 490 cms (July 1963, July 1972, and June 1977 – gauged at Q ~ 430cms, stage rise ~ 4m).

Basin Runoff Potential :

Gross DA = 4750 km^2 (beyond range of technique).

Conclusion :

The channel capacity estimate is consistent with historic observations. Recommended parameters :

Y = 5.5 m, V = 3.1 m/s, Q = 1000 cms.
EL 457.5 m (1165-P)