BF 82080 Local Road Over Camrose Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0009
B = 3 m, h = 1.2 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.6 m/s, Q = 3 cms
At Channel Capacity : Y = 1.8 m, V = 0.8 m/s, Q = 6 cms

Historical Highwater Data :

There are no HW observations at this site. The structure was designed in 1995 with Y = 1.5m and Q = 9cms.

WSC Gauge 05FA010 (DA = 496km^2, 1929 – 1930) did not record any HW events. Gauges in the area suggest HW events in April 1974, April 1982, July 1983, April 1985, and April 1997. The largest event in the storm database for this area is June 1965 with 120mm of rainfall.

Basin Runoff Potential :

d = 35mm, T_p = 40 hrs, q = 0.25 cms/km^2.
Gross DA = 96 km^2.
Q_p = 24 cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 0.8 m/s, Q = 6 cms.