BF 77270 Hwy 743 Over Whitemud River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.055
B = 1 m, h = 0.5 m, T_h = 2 m
Use n = 0.06

At Bank Height : Y = 0.5 m, V = 1.8 m/s, Q = 1 cms
At Channel Capacity : Y = 1.0 m, V = 3.4 m/s, Q = 6 cms

Historical Highwater Data :

A 1989 BIM report notes a HWM with Y = 1m, and a 1999 BIM report notes a HWM with Y = 2m (no description). A 1990 inspection notes blockage by a slide and a HWM with Y = 1m.

There are no gauges on this stream. Gauges in the area suggest large runoff events in April 1979, June 1990, and April 1997. The largest storm in the database for this area is 120mm in August 1982.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 21 km^2.
Q_p = 12 cms.

Conclusion :

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

Recommended parameters : Y = 1.0 m, V = 3.4 m/s, Q = 6 cms.