BF 13220 Highway 786 Over Crowlodge Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.006
B = 2 m, h = 1 m, T_h = 6 m
Use n = 0.055

At Bank Height : Y = 1 m, V = 1.5 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 1.0 m/s, Q = 10 cms

Historical Highwater Data :

A 2005 photo shows water ponding at the inlet.

There are no WSC gauges on this stream. A nearby gauges on Pincher Creek suggest HW events in June 1975, June 1995, and June 2005. The largest storms in the database for this area about 135mm in June 2002, 130mm in June 1995, and 125mm in May 1951.

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, q = 0.25 cms/km^2.
Gross DA = 45 km^2.
Q_p = 11 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.0 m/s, Q = 10 cms.