BF 74345 Hwy 16 Over Trail Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.045
B = 2 m, h = 0.7 m, T_h = 5 m
Use n = 0.06

At Bank Height : Y = 0.7 m, V = 2.1 m/s, Q = 5 cms
At Channel Capacity : Y = 1.2 m, V = 3.4 m/s, Q = 17 cms

Historical Highwater Data :

No HW events have been recorded on file at this site. A 1954 bridge report refers to a d/s 4' concrete box railway culvert flowing with 1.2m of head and the design was based on Q = 6cms.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in August 1969, Jun 1980, July 1986, and July 1999. The largest storms in the storm database are ~130mm of rainfall in July 1999, and about 105mm in June and July 1965, June 1980, July 1995, and June 1997.

Basin Runoff Potential :

d = 70 mm, T_p = 20 hrs, q = 1.0 cms/km^2.
Gross DA = 8 km^2.
Q_p = 8 cms.

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 0.8 m, V = 2.5 m/s, Q = 8 cms.