BF 09875 Hwy 13 Over Poplar Creek Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.005
B = 2 m, h = 1.4 m, T_h = 4 m
Use n = 0.055

At Bank Height : Y = 1.4 m, V = 1.1 m/s, Q = 5 cms
At Channel Capacity : Y = 2.1 m, V = 1.7 m/s, Q = 12 cms

Historical Highwater Data :

HW has been observed at this site in July 1990 (Y ~ 2.0m), July 1986 (Y ~ 1.5m), and July 1982 (Y ~ 1.0m).

There are no gauges on this stream. Gauges in the area suggest large runoff events in April 1974. July 1982, July 1986, and July 1990. The largest storms in the storm database are 130mm of rainfall in July 1982, July 1986, and July 1990.

Basin Runoff Potential :

d = 70mm, T_p = 20hrs, q = 1.0 cms/km^2.
Gross DA = 9 km^2.
Q_p = 9 cms.

Conclusion :

Basin runoff potential would govern over channel capacity, and is close to the historic highwater observations.

Recommended parameters : Y = 2.0 m, V = 1.6 m/s, Q = 10 cms.