BF 01126 Local Road Over Pekisko Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.005
B = 15 m, h = 2.5 m, T_h = 30 m
Use AT Equation

At Bank Height : Y = 2.5 m, V = 2.6 m/s, Q = 150 cms
At Channel Capacity : Y = 3.5 m, V = 3.4 m/s, Q = 300 cms

Historical Highwater Data :

HW was noted in July 1969. The 1983 design was based on Y ~ 3.5m (300cms).

Gauge 05BL006 (DA = 203 km^2, 1912 – 1930) reports Q = 130cms (June 1923) and Q = 100cms (June 1929). Gauge 05BL023 (DA = 223 km^2, 1967 – Now) reports Q = 130cms (June 2005, stage rise = 1.5m), Q = 100cms (June 1995) and Q = 85cms (June 1998).

Basin Runoff Potential :

d = 60/70 mm, T_p = 20 hrs, q = 0.9 cms/km^2.
Gross DA = 570 km^2.
Q_p = 500 cms.

Conclusion :

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

Y = 3.5 m, V = 3.4 m/s, Q = 300 cms.
EL 96.5 m (10548-C)