BF 13378 Hwy 744 Over Lalby Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.002
B = 6 m, h = 2.2 m, T_h = 10 m
Use n = 0.045

At Bank Height : Y = 2.0 m, V = 1.2 m/s, Q = 20 cms
At Channel Capacity : Y = 3.0 m, V = 1.8 m/s, Q = 45 cms

Historical Highwater Data :

HW was noted in May 1965 (Y = 3m). A 1988 BIM report notes a HWM with Y = 2.3m.

WSC Gauge 07GJ005 (DA = 160km^2, 1978 – 1995) reports Q = 37cms (stage rise = 3.0m) in May 1979 (gauging info not available). There are no storms in the storm database with more than 100mm for this area.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 198 km^2.
Q_p = 165 cms.

Conclusion :

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

Recommended parameters : Y = 3.0 m, V = 1.8 m/s, Q = 45 cms.