BF 09401 Hwy 1A Over Joshua Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.023
B = 4 m, h = 0.8 m, T_h = 10 m
Use n = 0.055

At Bank Height : Y = 0.8 m, V = 1.8 m/s, Q = 10 cms
At Channel Capacity : Y = 1.3 m, V = 2.8 m/s, Q = 30 cms

Historical Highwater Data :

A 2005 BIM report notes that HW may have been over road in June 2005 (photos show significant drift blockage of the pipe).

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in June 1915, 1929, 1932, 1948, 1967, 1995, and 2005. The largest storms in the storm database are about 110mm of rainfall in June 1928, 1970, and 1992.

Basin Runoff Potential :

d = 70 mm, T_p = 20 hrs, q = 1.0 cms/km^2.
Gross DA = 50 km^2.
Q_p = 50 cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 2.8 m/s, Q = 30 cms.