

Comparison of Two Bridge Configurations and Their Effects

	No Bridge	140 m Bridge	241 m Bridge	Notes
Bridge Configuration				
Spans	n/a	2	4	
Length of spans	n/a	140 m	241 m	
Piers	n/a	1	3	
Floodplain infilling	No	Yes	No, slopes only	
COSTS	n/a	\$18,900,000	\$24,000,000	See detail sheet
Hydrological Effects				
Backwater effects				Extent of effects – see AP
2 year flood	No, 6.67 m	Yes, 6.68 m	No, 6.67 m	Elev. of edge of bank 5.3 m
100 year flood	No, 8.76 m	Yes, 8.84	Yes, 8.77 m	
Scour	Normal	Yes, 0.5	Yes, 0.3	Increase for 100 y flood
cautious assumptions				
Land use/habitat effects				
Flood zone	No	0.20 ha	0.16 ha	
Scour zone	No	No	No	
Agricultural land	No	0.53 ha	0.18 ha	
Upland forest	No	0.55 ha	0.23 ha	
Loss of sensitive terrestrial species	No	Yes	Yes	Only under 1 pier for either bridge size

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