## Appendix H High level MCA on refined longlist options

## MULTI CRITERIA ANALYSIS – WAIPOUA URBAN REACH INDIVIDUAL OPTIONS

Green – Yes, achieves criteria Orange – undecided Red – Flawed

Options	CRITERIA									
	A – Flood impact	B – Implementation	C – Feasibility	D – Economic	E – Social	F – Cultural	G – Environmental	H – Cost	I – Te Mana o te Wai	
1. Mahunga wetland	·		·	Can gravel be used as a resource		Rongo inclusion	Groundwater impacts? Specific trees impacted? Invertebrates?		TBD	
2. Akura overflow/bank	*need to model, as it appears to push more water through town	Supported by landowner	Want to stop water over railway line				Neutral – no benefits to environment	Potentially expensive. Depends on swale/bund standard	TBD Neutral impact on river	
3. TLB u/s Mawley lower berms		Possible resource consenting issues		Might not need stopbanks on other side of river	Are there planted trees impacted? Manually digging out rivers is not well received. Not well used area	Use of machinery might be an issue	Allowing it space to become more natural. Could give backwater. Negative impacts while doing it, afterwards might be oka	Could we use materials for stopbank, sell some	TBD	
4. Oxford St stopbank	Need to improve risk to Oxford Street					Moving stopbanks away from river would be seen as benefit			TBD	
5. Upgrade stopbanks TRB fire station reach		Need to do something in this space	Depends on how much it will detain, there are some very tight spots, new bridge hasn't helped		Annoy immediate neighbours? Others love it. Those close could be happy with higher protection				TBD	
6. Lower berms TLB by sports fields		Possible resource consenting issues		Might not need stopbanks on other side of river	Are there planted trees impacted? Manually digging out rivers is not well received. Not well used area	Use of machinery might be an issue	Allowing it space to become more natural. Could give backwater. Negative impacts while doing it, afterwards might be oka	Could we use materials for stopbank, sell some	TBD	
7. Move stopbanks to behind sports fields TLB	Useful in combination with stopbanks upstream Potential reduce impacts	Make use of the natural terrace		Will it impact expensive infrastructure? in	People may not like the idea of flooding the sports fields. What LoS can we provide the sports field		Gives the river more space, potential for wetlands or native planting		TBD	
8. Flood sports bowl				Could be problematic					TBD	
9.Lower berms TRB d/s SH2				More assets in this area	QE2 park and other assets and increased impacts on Cameron Cres		Depends on how it's done		TBD	
10. Remove stopbank d/s SH2 TLB					QE2 park and other assets and increased impacts on Cameron Cres			Unnecessary expense?	TBD	
11. ?										
12. Encourage flow under SH2 TLB									TBD	

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Options	CRITERIA										
	A – Flood impact	B – Implementation	C – Feasibility	D – Economic	E – Social	F – Cultural	G – Environmental	H – Cost	I – Te Mana o te Wai		
13. Bund for		Dependant on location						Could be expensive	TBD		
Cameron Cres											

## Decisions:

- Do not proceed with option 8
- Do not proceed with option 9
- Proceed with option 10 with caution
- Continue to assess remaining options through combinations of options analysis