

Eco Impact Checklist

Title of report:	Redcliffe Bascule Bridge Refurbishment
Report author:	Chris Dooley (Structures Manager)
Anticipated date of key decision	21st June 2018

1. Summary of proposals:

Undertake refurbishment and repairs to electrical and mechanical equipment of lifting mechanism of bridge, to ensure effective lifting and closing operations
 Undertake repairs to bridge to refurbish its static structural condition

Historic Background

The bridge is lifted infrequently (1 -2 times a year) but the last Zurich Inspection, undertaken in May 2015, recommended no further operational lifting is done until urgent major structural and operational repairs and replacement are undertaken as a matter of urgency. Failure to comply with this Insurance directive would result in the bridge being lifted without appropriate corporate levels of insurance required by the Council, as Highway Authority. Any resultant damage to transport infrastructure or resultant claims from stakeholders would put the Council corporately, at a high risk.

Vessels docked within the Floating Harbour require access, as they need to go to dry dock for inspection, as part of their insurance renewals. Should the bridge fail, such that access was not possible, the Council could be liable for claims from the vessel owners.

From previous inspections, risk of component failure during lifting operation is considered high. The effect of operational failure during mid-lift would be the closure of Redcliff Way and adjacent routes to The Grove and Welsh Back. This would result in traffic delays and diversions to the local network for pedestrians, cyclists and vehicular traffic, including detrimental service impacts on the bus routes which cross this bridge.

Component failure may result in the road bring closed for a substantial period, whilst new components are procured or manufactured. Closure would result in relatively long diversion routes, which would have a significant detrimental impact on people with mobility difficulties, especially pedestrians. Resultant traffic congestion during this period of bridge closure will have a high negative impact on the sur-

rounding networks, as well as a financial and environmental impact on the local City economy. The mitigation measured required due to this risk occurring would possibly mean having a large crane on site to try and lift the span and seek to get it back down to enable the bridge to be operational and trafficked.

The proposal will allow the existing Redcliffe Bascule Bridge to continue to operate effectively.

Will the proposal impact on...	Yes/ No	+ive or -ive	If Yes...	
			Briefly describe impact	Briefly describe Mitigation measures
Emission of Climate Changing Gases?	Yes	-ive,	Construction works will involve travel and use of materials.	Look to appoint a local contractor if practical to reduce travel impacts.
Bristol's resilience to the effects of climate change?	No			
Consumption of non-renewable resources?	Yes	-ive	Construction works will involve travel and use of materials	Use sustainable procurement practices for materials needed for the project. Where applicable use local suppliers/ contractors to reduce travel impacts. Consider use of oil and possible use of biodegradable oil for the hydraulic mechanism.
Production, recycling or disposal of waste	Yes	-ive	Construction works will generate waste	Ensure that contractors comply with waste legislation and apply the waste hierarchy to waste generated. A waste management plan from the contractor will be needed.
The appearance of the city?	Yes	+ive/ -ive	If works do not go ahead the bridge/ road is at risk of closure	Undertaking the works will mitigate this risk.
Pollution to land, water, or air?	Yes	-ive	Construction works could lead to risk of pollution to the water course.	Ensure the contractor has an emergency response plan (especially spill response) and that

				<p>all chemicals and waste are stored securely and the risk of escape/ leakage is mitigated.</p> <p>Inform the Environment Agency of the planned works as they are close to a watercourse, check if a licence is needed.</p> <p>Undertaking to works will mitigate this risk.</p>
		+ive	<p>There is a risk that in taking no action could lead to long road closures, disrupting sustainable and public transport routes and displacing traffic worsening air quality within other areas of the city.</p>	
Wildlife and habitats?	NO			
Consulted with:				
Summary of impacts and Mitigation - <u>to go into the main Cabinet/ Council Report</u>				
<p>The significant impacts of this proposal are construction works in travel and the use of materials and waste generated.</p> <p>The proposals include the following measures to mitigate the impacts: contractors will be managed and waste management plans and energy spill response plans will be in place. Contact with the Environment Agency will be initiated well before the works take place and a licence will be obtained if needed.</p> <p>The net effects of the proposals are positive as long as the works are well managed.</p>				
Checklist completed by: Nicola Hares – Environmental Performance Team				
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Date:		21/06/2018		
Verified by Environmental Performance Team		Nicola Hares with input from Steve Ransom – Environmental Performance Team.		