

Eco Impact Checklist – Appendix F

Title of report: BNET Expansion – Avonmouth Fibre Extension				
Report author: Emma Howarth / Philip Higgins				
Anticipated date of key decision: 6th October 2020				
Summary of proposals: Unused sections of the former Rediffusion network will be restored and brought back into use, in order to connect council and partner sites that are not currently connected to BNET. Two short extensions to the existing network will allow the connection to further sites.				
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	+ve	<p>Supports remote, cloud, and flexible working by providing better broadband. It supports e-learning and new forms of remote public service delivery. This reduces the need for travelling to meetings and other appointments.</p> <p>Full fibre broadband (FFB) has no copper wire connections, which reduces energy use and enhances reliability.</p> <p>Project includes extensive reuse of unused infrastructure.</p>	Reuse as much existing infrastructure as possible. Ask contractors about options for using low emission plant and vehicles.
		-ve	<p>Whilst scheme reuses old infrastructure, there will be some low level emissions from the build phase</p>	
Bristol's resilience to the effects of climate change?	Yes	+ve	Full Fibre Broadband infrastructure is more temperature resilient, reliable and lower maintenance than copper, and there are fewer components to	None required.

			fail. This future-proofs infrastructure to support smart city initiatives, ANPR camera networks and rapid changes in working in response to events, such as the global pandemic.	
Consumption of non-renewable resources?	Yes	-ve	Fibre optic cable and composite ducting is required for the new sections, which will be key parts of city infrastructure.	Implement long lasting composite ducting and future-proofed full fibre cabling.
Production, recycling or disposal of waste	Yes	+ve -ve	Valuable copper cabling from the unused sections will be recovered. Refurbishment of existing sections and additional sections will result in waste copper cables, covers and collars.	Metal covers and frames will be refurbished where it is safe to do so (to ensure pedestrian safety). Metal covers that cannot be refurbished and old copper cables will be recycled. Ensure as little waste of resurfacing materials (such as tarmac, or paviors) as possible. Very degraded cover and collar fragments will be backfilled into holes dug.
The appearance of the city?	No		None (BNET is an underground network).	
Pollution to land, water, or air?	Yes	-ve	There may be minor pollution associated with travel and use of plant for the initial works.	See mitigation for 'Emission of climate changing gases'.

Wildlife and habitats?	No		None	
Consulted with: Giles Liddell				
Summary of impacts and Mitigation - <u>to go into the main Cabinet/ Council Report</u>				
<p>The significant impacts of this proposal are some short term emissions associated with travelling, trenching, and resurfacing works to add new sections to the network, and refurbish the unused sections. The longer term impacts are a greatly expanded network that will contribute to smart city innovations, and remote working, which will reduce the need to travel in the city.</p> <p>Mitigation measures include extensive reuse of an existing network, refurbishment or recycling of redundant components, and the use of long-lasting full fibre systems and composite ducting.</p> <p>The net effects of the proposals are likely to be beneficial. The potential of the low maintenance network to reduce travel and streamline service delivery should more than compensate for the very short term impacts of works to refurbish and extend the network.</p>				
Checklist completed by:				
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Date:	12/08/2020			
Verified by Environmental Performance Team	Giles Liddell			