Appendix 17.4: Road Traffic Noise Assessment results of the 'Anticipated Parameter' floorspace scenario

Introduction

1.1. This appendix assesses the road traffic noise impacts for the Development based on traffic flows for the 'maximum parameters' scenario. The assessment method follows the same approach as the main chapter (set out in section Error! Reference source not found. onwards).

Assessment of road traffic noise impacts

- 1.2. Current and forecast traffic flows for the scheme have been produced by Peter Brett Associates (Second Issue dated 18 June 2012). The following scenarios will be compared for the assessment of road traffic noise impact:
 - Do Nothing 2017
 - Do Something 2017 + PC + development 'maximum parameters' flows
- 1.3. The table below shows the percentage change in traffic flow in column 3, columns 4 and 5 show the calculated BNL for both scenarios, and column 6 shows the difference in BNL between the two scenarios (column 5 minus column 4).

Link	Section	%age change in traffic flow between scenarios (AAWT,18hr)	Basic Noise Level (dB)		
			Base 2010	Base 2010 + PC + Devt ST	Difference
Great Charles Street	Paradise Circus to Newhall Street	-2%	75	75	0
Great Charles Street	Newhall Street to B4100 Snow Hill	-3%	75	74	-1
A38 Snow Hill	To Great Charles Street roundabout	0%	80	80	0
Suffolk Street Queensway	Off Paradise Circus	-4%	74	74	0
Suffolk Street Queensway	Near Holloway Circus	3%	79	79	0
Suffolk Street Queensway	Holloway Circus to south	1%	78	78	0
Broad Street	Paradise Circus to Sheepcote	-2%	72	72	0

Link	Section	%age change in traffic flow between scenarios (AAWT,18hr)	Basic Noise Level (dB)		
			Base 2010	Base 2010 + PC + Devt ST	Difference
	Street				·
Broad Street	Sheepcote Street to Five Ways	-1%	73	73	0
- ·		Link removed			
Paradise Circus Queensway	Next to Town Hall	as part of the			
		scheme			
Paradise Circus	Broad St and Cambridge St	69%	74	76	+2
Sand Pits	Paradise Circus to Fredrick Street	-7%	74	74	0
Sand Pits	Cambridge Street to A4540 Ring Road	2%	74	74	0
Cambridge Street	-	12%	63	63	0
Paradise Street	-	11%	67	68	+1
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Discussion of road traffic noise impacts

- 1.4. The predications indicate that the change is noise at 11 of the 14 links is less than 1dB. As stated previously, changes in road traffic noise of less than 1dB are imperceptible. Therefore, the impact from traffic changes on these links is negligible.
- 1.5. The 'Paradise Circus Queensway Next to Town Hall' link is to be removed as part of the scheme, and therefore a direct comparison of BNL change cannot be made. However, this will result in a reduced traffic noise level at buildings in the area, such as the Town Hall, and residential and commercial buildings on Paradise Street to the south of the Site to a lesser extent.
- 1.6. Traffic flows on the 'Paradise Circus Broad St and Cambridge St' link are predicted to increase, as traffic is diverted onto it following the closure of the link next to the Town Hall. The associated BNL change is predicted to be +2dB; this considered to have a minor adverse impact but rated as a not significant effect.