

Subject Castlefield Viaduct- Planning Condition 13a and 13b
Job No/Ref 282210-00
Date 11 February 2022

1. Planning Condition 13a

Identify those areas/features on site that are particularly sensitive for bats and that are likely to cause disturbance in or around their breeding sites and resting places or along important routes used to gain access to key areas of their territory, for example, for foraging;

Refer to the Bat Survey Report completed September 2021 by Urban Green.

Matt Blacker, senior ecologist at Urban Green has stated that there are no bat roosts on the top of the viaduct but bat roosts were identified within the supporting structures. However, the length of the viaduct is used frequently by commuting and foraging bats, emerging from the roosts within the supporting structures.

2. Planning Condition 13b

Show how and where external lighting will be installed (through the provision of appropriate lighting contour plans and technical specifications) so that it can be clearly demonstrated that areas to be lit will not disturb or prevent the above species using their territory or having access to their breeding sites and resting places;

Refer to the following documents for the relevant lighting strategy information:

- CVI-ARUP-ZZ-GF-DR-E-002501 Lighting Layout Sheet 1
- CVI-ARUP-ZZ-GF-DR-E-002502 Lighting Layout Sheet 2
- CVI-ARUP-ZZ-GF-DR-E-002503 Lighting Illuminance Layout
- CVI-ARUP-ZZ-XX-SP-VP-000001 MEP Particulars Specification

Bat Survey Report, Urban Green- Section 5.3 Lighting Mitigation states that the following measures are the applied to the lighting scheme:

- “Lack UV elements and preferably LED lighting with a warm white light should be used over cool white light (ideally <2700K).”
- “Lighting should not feature peak wavelengths greater than 550nm.”
- “Light placement should be downward facing to prevent excess horizontal or vertical light spill.”
- “The use of integrated fittings such as cowls, shields, louvres and hoods, that effectively contain light spill from unintended areas.”

2.1 Lighting Specification

The luminaires specified within CVI-ARUP-ZZ-XX-SP-VP-000001 are all LED light sources. LED light sources will typically feature no UV component.

The colour temperature across the scheme has utilised 2700K where possible and 3000K elsewhere. 2700-3000K is classified as a warmer colour temperature of light similar to lighting elements seen around the development.

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<3000K colour temperature with the red/yellow hue of light will have a peak wavelength of <550nm which will cause less of an impact on bats (ILP Guidance Note 08- Bats and artificial lighting in the UK).

2.2 Lighting Strategy

The lighting strategy comprises low level lighting achieving the minimum required lighting levels to the key walkway and elements. Refer to CVI-ARUP-ZZ-GF-DR-E-002503 which demonstrates the lighting levels on the viaduct and in the immediate surroundings. In general, the lux levels are <0.5lux along the site boundary of the project.

All lighting is aimed in a downward direction to minimise upward light spill and the impact on bats.

The luminaires selected are generally of a low brightness intensity with reduced lumen outputs to avoid over-illumination of the site and protect the night-time environment and ambience when visiting the viaduct.