



ECOLOGY TECHNICAL NOTE

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| PROJECT | Land off Burn Road, Birchencliffe |
| PLANNING REFS. | 2024/61/90255/W & 2019/60/94051/W |
| SUBJECT | LIGHTING STRATEGY STATEMENT |
| DATE | 22 April 2024 |
| AUTHOR | Ryan Knight BSc (Hons) MCIEEM |
| ISSUED TO | Marsden Contracting, Zerum, Heneghan Architecture |

INTRODUCTION

Knight Sky Ecology was commissioned to provide ecological consultancy services in relation to a housing development located off Burn Road, Huddersfield, HD3 3BT. The development received outline planning permission on 9th February 2021.

The production of a Lighting Strategy is required in relation to reserved matters application no. 2024/61/90255/W and recommendations made within the relevant ecological documents submitted to the outline application (application no. 2019/60/94051/W) including the Ecological Impact Assessment (EclA) report (Brooks Ecological, 2020) and an EclA revalidation and update statement (Knight Sky Ecology, 2023).

The Lighting Strategy (showing lighting contours) is particularly in relation to the minimisation / avoidance of lighting on Kirklees Wildlife Habitat Network

STATEMENT

The recommendations relating to lighting primarily relates to the protection of foraging / commuting flightlines for bats along the woodland edge of the habitat network. The location of the network is shown in Figure 1 below.

The recommendation to complete a lighting strategy was made prior to any knowledge of the proposed layout of the scheme. One of the primary biodiversity conservation measures of the finalised layout is the design of a wildlife corridor along the entire southern site boundary. This wildlife corridor also incorporates an attenuation pond and wildflower grassland on the east boundary.

Combined, these habitat features provide a significant buffer zone from the dwellings and street lighting. Furthermore, the layout has been designed so only the rear gardens of the properties are facing the wildlife network (see Figure 2). The dwellings themselves will provide significant screening from any street lighting.

The developer has advised that the rear elevations of the houses are to be fixed with external lighting for security and general use purposes. The following design measures for this lighting are advised:



- LED luminaires should be used where possible due to their sharp cut-off, lower intensity, good colour rendition and dimming capability.
- A warm white light source (2700Kelvin or lower) should be adopted to reduce blue light component.
- Use only luminaires with a negligible or zero upward light ratio, and with good optical control, should be considered.
- For security lighting with PIR sensors, the timed trigger window should be 1-2 mins which is likely to be sufficient for typical residential purposes.
- For downlighters, it is recommended that these be put on a timer or use a PIR sensor (as above) to avoid being permanently lit.
- Use a sufficient enough output to light the task areas only.
- Use cowls or similar to minimise upward light spill.

With consideration to the scheme layout along with the implementation of the above lighting designs, it is considered that no further assessment or lighting contours plan is required.

Figure 1. Kirklees Wildlife Habitat Network



Figure 2. Site layout





REFERENCES

Brooks Ecological (2020). Ecological Impact Assessment. Burn Road, Huddersfield. March 2020.

Knight Sky Ecology (2023). Land adjacent to Cliffe Farm, Burn Road, Birchencliffe, Ecological Impact Assessment – Revalidation and Update.