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Canal & River Trust  
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United Kingdom

21 January 2022

**Response to Lighting Condition Regarding Planning Application 2021/5736/P**

Dear Claire,

This letter refers to Light Bureau's design for the exterior lighting of Hawley Wharf including interventions to add or improve the existing lighting conditions on site in line with our Client's brief and vision for these spaces. Our design has been developed in line with the best practices corresponding to light pollution and biodiversity concerns.

The proposed lighting along the canal which is part of our scope incorporates the following principles:

- All amenity lighting utilise well shielded luminaires with high degree of optical control that do not emit light above the horizontal plane and employ the latest LED light sources. They are all aimed downwards (L2, L3 and L4) or concealed in architectural details (L5);
- All luminaires are specified with dimmable drivers and should be adjusted on site during commissioning to achieve a balanced environment meeting the prescribed <5lux levels of light along the bat corridor (water surface and towpath along the water);
- We recommend the adoption of a curfew-based lighting control strategy with all accent and feature lighting (proposed new reveal lighting L6 and existing tree uplighting) switched off after curfew;
- An astronomical time-clock based operation of the controls system would allow for automatic adjustment of the curfew hours corresponding to sunrise/sunset times throughout the year;

- The proposed luminaires have warm colour temperature (3000 Kelvin) light sources that do not emit ultra violet (UV) light. This avoids potential ecological impact by ultra violet light as it is known to attract flying insects and moths;
- Installation height along the areas of primary bat commute is limited to 4m.

I hope that these satisfy the concerns of the Canal & River Trust and we remain open to address any further comments and questions from your side.

Yours sincerely,

Lilly Nicheva  
Lighting Designer  
Light Bureau