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Paul Sexton
SCEG LIMITED
'The Five Roads'
Jordanstown
Lusk
Co. Dublin
Ireland

Date: 20th December 2022

Re: Clondalkin Rugby Football Club – Kingswood Relocation: Revised Lighting Report

Dear Paul,

Veon Ecology acknowledge receipt of the updated *Clondalkin RFC Kingswood Redevelopment Lighting Report*, compiled by Conor O'Byrne 19.12.2022.

We note that in those areas we recommended as 'dark corridors' within the Clondalkin RFC site in our Bat Report (August 2022) the updated *Clondalkin RFC Kingswood Redevelopment Lighting Report* now calculates light levels to drop below 0.4 lux.

Veon Ecology also notes, that in addition to this, solid fencing will further shield the river from any light spill from the bridge, and hedging will shield the river from spill from the bollards and pole lights in the immediate vicinity of the crossing.

We acknowledge the following measures:

- Luminaires have upward light ratio of 0%
- Luminaires lack UV and IR elements
- All luminaires have a correlated colour temperature (CCT) of <2700K. Pole lights are specified with a CCT of 2200K
- The bike path lighting is to be controlled by PIR motion detectors such that the lighting is only on when the path is in use
- The only pitch to be lit is over 100m from the river

Directors: Daragh Little - Paul Brosnan - Trevor McHugh Joe Codd
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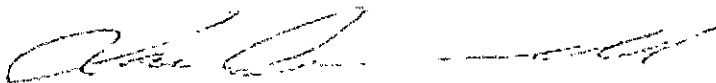
Similarly, we welcome the consideration to not light along the west end of the local road, as this is the location of the tributary ditch to the Camac river identified in the ecological survey as an area to be protected and kept dark, and that any Road Spill results have shown a negligible (avg <1 Lux) spill beyond the site boundary onto the R136 and N7 ramps.

Each species of bat has an optimum level of light for emergence, and it is scientifically acknowledged that 'absolute' darkness is typically not achievable, with ambient moonlight typically averaging around 0.2 lux level.

To maintain a network of dark corridors and bat foraging habitats for the specific Bat species identified on site, the maximum of 0.5 lux is general prescribed.

In Veon Ecology's professional opinion, provided the lux levels calculated within the identified areas of ecological concern and sensitivity at the proposed Clondalkin RFC site are maintained at <0.4 lux, as detailed in the *Clondalkin RFC Kingswood Redevelopment Lighting Report 19.12.2022*, these measures should be sufficient to avoid impacts from the project, such as direct loss, fragmentation, disturbance, and lighting, to any foraging and/or commuting bats that may be present on site.

Best regards



Daniel Connell

Head of Division, Veon Ecology

Daniel Connell - MSc Biodiversity, Wildlife and Ecosystem Health (OG), BSc (Hons) Natural Sciences, PGDip English, BA Business Studies, NWCS Ecol., CIEEM, AECOW, IEA.

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