## Appendix to Chapter 8: Biodiversity

## Appendix 8.7: General Birds Fieldwork \& Survey Results

The data and descriptions in this appendix have informed the cumulative evaluations in the EIA Main Report.

Table of Contents, overleaf

## Contents

A8-7 Appendix to Chapter 8: Biodiversity ..... 1
A8-7.1 Fieldwork - General Birds .....  3
A8-7.1.1 2019 Breeding Bird Surveys ..... 3
A8-7.1.2 Kingfisher Surveys. ..... 4
A8-7.1.3 Barn Owls ..... 4
A8-7.2 Survey Results - General Bird Species ..... 5
A8-7.2.1 Results of Countryside Bird Surveys 2019 ..... 5
A8-7.2.2 Results of 2019 Kingfisher Survey for UWF Grid Connection ..... 10
A8-7.2.3 Results of 2019 Barn Owl Survey for UWF Grid Connection ..... 11
A8-7.2.4 Results of Countryside Bird Surveys 2016 to 2018 ..... 12
A8-7.2.5 Survey Results - Other Elements ..... 26
A8-7.2.6 General Bird Species Recorded and Corresponding Sensitivity Rating ..... 27

## List of Tables:

Table 1: Results of Countryside Bird Surveys undertaken along transects T1 to T40 along the UWF Grid Route Connection during 2019 breeding season

Table 2: Results of Kingfisher Survey for UWF Grid Connection carried out in June 2019
Table 3: Results of Barn Owl Survey for UWF Grid Connection carried out in July 2019
Table 4: Results of Countryside Bird Surveys undertaken along Mountphilips' transect during the breeding season of 2016.

Table 5: Results of winter bird transect surveys undertaken along Mountphilips' transect during the nonbreeding season of 2016/17

Table 6: Countryside Bird Survey Results for Mountphilips' transect during 2017 breeding season
Table 7: Results of winter bird transect surveys undertaken along Mountphilips' transect during the nonbreeding season of 2017/18 (November 2017 to December 2017).

Table 8: Results of winter bird transect surveys undertaken along Mountphilips transect during the nonbreeding season of 2017/18 (January to February 2018).

Table 9: Hen Harrier Vantage Point Surveys -General Bird Sightlines Non Breeding Season 2017/2018
Table 10: Birds Recorded during Overhead Line Activities Surveys
Table 11: Bird Sensitivity Rating for bird species recorded across all bird surveys

## A8-7.1 Fieldwork - General Birds

The receiving environment for Whole UWF Project includes typical upland habitats in the Irish context in addition to an improved agricultural landscape.

## A8-7.1.1 2019 Breeding Bird Surveys

Breeding season bird transects were carried out for the subject development, UWF Grid Connection, with 40 transects along the entire length (c. 30 km ) of the 110kV UGC carried out in April 2019. Survey work was carried out over seven days in April 2019 (12, 17, 18, 20, 25, 27 and 28). The methodology followed the standardised line transect methodology for surveying birds (BWI, 2012). All birds were recorded onto standardised recording sheets in four distance categories from the proposed UGC route ( $0-25 \mathrm{~m} ; 25-100 \mathrm{n} ; 100+\mathrm{m}$ and in flight).

Transect data were recorded using standard Countryside Bird Survey (CBS) methodology (Birdwatch Ireland, 2012). The conservation status of each species recorded during the field surveys was assessed using the Birds of Conservation Concern in Ireland ( BoCCl ) list (Colhoun \& Cummins, 2013) in addition to relevant national or international legal designations.

## A8-7.1.1.1 Information from 2016 and 2017 surveys for previous UWF Grid Connection application

A standardised bird transect survey was undertaken at the Mountphilips Substation site in the breeding season of 2016, 2017 and 2019. Standardised bird transect surveys were also undertaken along the entire length of the 110kV UGC. It is thought that the 2016 and 2017 data is still relvant as the habitats have not significantly changed over time.

## A8-7.1.1.2 Survey information for Other Elements

Transect data and survey results for the Other Elements, UWF Related Works, UWF Replacement Forestry and UWF Other Activities was reviewed. Survey results for the Other Elements is included in the Biodiversity Appendices for UWF Related Works (Revised EIAR 2019) and for UWF Replacement Forestry (EIAR 2018). Available data on breeding birds within the EIS documentation for the Upperchurch Windfarm was also reviewed within the context of overlap with the locations of UWF Related Works, UWF Replacement Forestry and UWF Other Activities. The Upperchurch Windfarm EIS (2013) and RFI (2013) are included in the Reference Documents which accompany this planning application.

Due to the continuity and overlap of habitat types present throughout the respective elements, a sufficient representative sample of breeding birds is considered to have been achieved through both the results of the current study and previously conducted studies for the Upperchurch Windfarm.

## A8-7.1.2 Kingfisher Surveys

Kingfisher are associated with aquatic habitats such as watercourses and canals. This species is listed on Annex I of the EU Birds Directive and Amber-listed in Ireland as a species of Conservation Concern (Colhoun \& Cummins, 2013). With regard to the proposed UWF Grid Connection, in 2019, 26 no. suitable watercourses were surveyed 300 m upstream and downstream of watercourse crossing locations. These surveyed watercourses include the Newport River (W7), Clare River (W26) and Bilboa River (W53) and 23 other watercourses (W5, W7, W8, W9, W18, W21, W22, W23, W26, W28, W29, W30, W33, W35, W39, W41, W42, W46, W47, W48, W49, W50, W51 and W52). These rivers were selected due to their potential to support suitable Kingfisher foraging and nesting habitats, and the potential for greater prey item availability. Watercourse crossings along the UWF Grid Connection route are generally unsuitable for nesting Kingfisher, which requires sandy or earth banks alongside the watercourse to establish their tunnel/burrow nests.

In addition, Kingfisher surveys extending to 500m upstream and downstream of W7 Newport River crossing point, following the methodology presented in National Roads Authority (2008), was undertaken on 26 June 2019 (in tandem with the Otter surveys).

Watercourse crossings were evaluated for any evidence of nest holes within 300 m of crossing locations (in tandem with Otter surveys). In each case banks were inspected for evidence of Kingfisher, and general suitability of banks in proximity to crossing locations for nesting Kingfisher. Target notes were made on suitable nesting banks, and any observed nest holes.

## A8-7.1.3 Barn Owls

In February 2019, buildings were noted for potential suitability for Breeding Barn Owls. In July 2019, buildings identified as having high suitability for Barn Owls were surveyed. This involved checking for signs of building occupation (such as pellets, feathers, etc.). All Barn Owl surveys were carried out in accordance with Barn Owl Surveying Standards for National Road Projects, (TII, 2017).
Four buildings where assessed as having high suitability for Barn Owl. These were all surveyed in August 2019 for occupancy. No signs of occupancy were detected for any of these buildings. One building was too dangerous to enter due to the state of repair. The owner stated that he had occasionally observed Barn Owls during the winter but did not believe that they were breeding at that location.
Table 1：Results of Countryside Bird Surveys undertaken along transects T1 to T40 along the UWF Grid Route Connection during 2019 breeding season

| $\stackrel{\stackrel{i}{2}}{\stackrel{1}{2}}$ | $\begin{aligned} & \text { ষ } \\ & \hline \stackrel{O}{N} \end{aligned}$ |  | $\checkmark$ | $\checkmark$ |  | $N$ |  | m |  |  |  |  |  |  |  | $N$ |  | $\sim$ | $\stackrel{ \pm}{-}$ | $\underset{-}{7}$ |  |
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| $\stackrel{\underset{7}{7}}{\stackrel{\rightharpoonup}{7}}$ | 홍 |  |  | $\infty$ | m | $\sigma$ |  | $\infty$ | $\sim$ |  | $\checkmark$ | $\sim$ | $r$ |  |  | $\sigma$ |  | $\infty$ | $\underset{\sim}{\sim}$ | $\downarrow$ | $\checkmark$ |
| $\stackrel{\infty}{\underset{F}{F}}$ | 홍 |  |  | $\infty$ | $\checkmark$ | $\cdots$ | $\downarrow$ | $N$ | $\sim$ |  |  | $\sim$ |  | $\infty$ |  | $m$ |  | $\infty$ | $\infty$ | $\sim$ |  |
| $\begin{array}{\|l\|} \stackrel{\text { N }}{1} \\ \stackrel{1}{2} \\ \hline \end{array}$ | $\begin{aligned} & \text { 广 } \\ & \text { ò } \\ & \hline \end{aligned}$ |  |  | 6 | $m$ |  |  | N | $N$ |  |  | $m$ | $\rightarrow$ | $\sim$ |  | $\sim$ |  | N | $\checkmark$ | $\bigcirc$ |  |
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| $\begin{array}{\|l} \stackrel{\sim}{1} \\ \stackrel{1}{2} \\ \hline \end{array}$ |  |  | m | $\sigma$ |  | $m$ |  | N |  |  |  | $\checkmark$ |  | $\sim$ |  | $m$ | $N$ | － | $\stackrel{ \pm}{-}$ | の |  |
| $\begin{array}{\|l\|l\|l\|l} \underset{F}{\prime} \\ \hline \end{array}$ | $\begin{aligned} & \pm \\ & \underset{\sim}{\infty} \end{aligned}$ |  | 6 | $\xrightarrow{-}$ | $\rightarrow$ | － | $\sim$ | $\stackrel{-}{7}$ | $\checkmark$ |  |  | $\checkmark$ |  | $\sigma$ |  | $\checkmark$ |  | $\checkmark$ | $\infty$ | $\stackrel{ }{\text { A }}$ |  |
| $\begin{array}{\|l} \underset{I}{7} \\ \hline \end{array}$ |  |  | $\sim$ | $\stackrel{-}{-}$ | $\checkmark$ | $\checkmark$ |  | $\infty$ |  |  |  | $m$ | $\rightarrow$ | $\star$ |  | $\rightarrow$ | $N$ | m | $\underset{\sim}{\text { N }}$ | $\sim$ |  |
| $\begin{array}{\|l} \underset{F}{1} \\ \hline \end{array}$ | $\underset{\sim}{\underset{\sim}{O}}$ |  |  | $\checkmark$ | m |  |  | ம | $m$ |  | $\checkmark$ | $N$ | $\rightarrow$ | $\sim$ |  | $\rightarrow$ |  | $\sim$ |  |  | $\checkmark$ |
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| $\stackrel{\infty}{\bullet}$ | $\frac{\mathrm{O}}{\mathrm{O}}$ |  |  | $\bigcirc$ |  | $\cdots$ | $\checkmark$ | $\star$ | $N$ |  |  | $\sim$ | $N$ | $\sigma$ | $\checkmark$ | $\sim$ |  | $\checkmark$ |  | ம |  |
| F | $\frac{\mathrm{O}}{\mathrm{~N}}$ |  |  | $\omega$ | $\checkmark$ | $\cdots$ |  | N | $m$ |  | $\checkmark$ | $m$ |  | $\sim$ |  | $m$ |  | $N$ |  | $\star$ |  |
| $\stackrel{\bullet}{\vdash}$ | $\frac{\underset{i}{\lambda}}{\underset{r}{2}}$ |  |  | m | $\checkmark$ |  | $N$ | $\star$ | $\sim$ |  |  | $\star$ |  | $\sim$ | $\checkmark$ | $\sim$ | $N$ | ம | $\cdots$ | $\sim$ |  |
| $\stackrel{\sim}{\square}$ | $\frac{\underset{i}{i}}{\underset{\sim}{n}}$ |  |  | $\sim$ | $\bigcirc$ |  |  | ம | $m$ |  |  | $\sim$ | $\checkmark$ | $\sim$ | $\checkmark$ | $\checkmark$ |  | $N$ | m |  | $\checkmark$ |
| さ | $\frac{\text { I }}{\text { İ }}$ |  | $m$ | ம |  | $\cdots$ |  | ம | $N$ | $\cdots$ | $\checkmark$ | $N$ | $\rightarrow$ |  |  |  |  | $N$ |  | $\checkmark$ |  |
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| $\stackrel{\sim}{\sim}$ | $\begin{aligned} & \text { İ } \\ & \underset{\sim}{i} \\ & \hline \end{aligned}$ |  | $\sim$ | － |  | $\sim$ | $\sim$ | $N$ | $\checkmark$ |  |  | $N$ |  | $N$ |  | $\sim$ |  | ம | $\bigcirc$ | $\cdots$ |  |
| F | $\begin{aligned} & \text { İ } \\ & \text { İ } \end{aligned}$ |  |  | $\checkmark$ | $r$ |  | $\sim$ | $m$ | $N$ |  |  | $N$ | $m$ |  |  | $\sim$ | $r$ | $m$ |  | $\sim$ |  |
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| Transect No. | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 | T9 | T10 | T11 | T12 | T13 | T14 | T15 | T16 | T17 | T18 | T19 | T20 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | 12/04 | 12/04 | 12/04 | 12/04 | 12/04 | 17/04 | 17/04 | 17/04 | 17/04 | 17/04 | 18/04 | 18/04 | 18/04 | 18/04 | 18/04 | 18/04 | 20/04 | 20/04 | 20/04 | 20/04 |
| Linnet | 2 |  | 2 |  |  |  | 2 |  | 2 |  |  |  |  |  |  |  |  |  | 4 |  |
| Magpie | 1 | 1 |  | 1 |  | 1 | 2 | 1 | 1 |  |  |  | 1 | 3 |  | 3 |  | 2 | 3 | 3 |
| Mallard |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Meadow Pipit |  |  |  |  |  | 2 | 7 | 5 | 2 |  | 4 | 6 | 3 | 3 |  | 2 |  | 3 | 6 |  |
| Mistle Thrush | 2 | 2 |  | 3 |  |  | 1 | 1 | 2 |  |  |  | 1 |  |  |  |  |  |  |  |
| Pheasant |  | 1 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |  |  |  |  | 1 | 1 | 2 |  |
| Pied Wagtail |  | 4 | 2 |  |  | 4 |  | 2 |  |  | 2 | 3 | 4 | 8 | 3 | 8 |  | 2 | 3 | 7 |
| Reed Bunting |  |  |  | 2 |  | 4 | 2 |  |  |  | 2 |  |  |  |  |  |  | 1 |  |  |
| Robin | 2 | 2 | 5 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 6 | 4 | 3 | 4 |  |
| Rook |  | 33 | 5 | 6 | 0 | 6 | 16 | 11 | 2 | 2 | 6 | 7 | 14 | 33 | 8 | 23 | 25 | 24 | 22 | 12 |
| Herring Gull |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |
| Woodpigeon | 1 | 1 | 1 | 3 | 3 | 1 | 6 | 2 | 1 | 3 | 4 | 3 | 2 | 4 | 4 |  | 3 | 3 | 2 | 1 |
| Collared Dove |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |
| Kestrel |  |  | 1 |  | 1 |  |  | 1 |  | 1 | 1 | 1 |  |  |  |  |  | 1 |  |  |
| Raven | 2 | 1 |  | 1 |  | 1 |  | 2 | 2 |  |  |  |  |  | 2 |  |  | 2 |  |  |
| Skylark | 3 | 2 | 1 | 3 | 1 | 1 | 1 | 1 |  |  |  | 2 | 1 |  |  |  |  | 2 | 3 |  |
| Long-tailed Tit |  |  |  | 4 |  | 3 |  | 2 | 2 |  |  |  |  |  |  |  |  |  | 4 |  |
| Willow Warbler | 3 | 3 | 4 | 3 | 2 | 3 | 4 | 1 | 3 | 2 | 3 | 2 | 2 | 4 | 5 |  | 3 | 6 | 3 |  |
| Sedge Warbler |  |  |  |  | 1 |  |  | 1 |  | 1 |  | 1 |  |  |  |  | 1 |  |  |  |
| Whitethroat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |
| Wren | 5 | 4 | 5 | 3 | 5 | 3 | 4 | 3 | 3 | 5 | 3 | 5 | 3 | 6 | 6 | 5 | 6 | 5 | 4 | 3 |
| Starling |  | 12 | 4 | 3 |  | 2 | 1 |  | 1 |  | 6 | 6 | 8 | 5 |  | 5 | 3 |  | 7 | 10 |
| Song Thrush | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 6 | 4 | 2 | 3 | 2 | 2 |  |
| Stonechat | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |  |  |  |  | 2 | 2 | 2 |  |
| Dipper |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |

APPENDIX 8.7: General Birds Fieldwork \& Survey Results EIAR 2019, Chapter 8: Biodiversity

| Transect No. | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 | T9 | T10 | T11 | T12 | T13 | T14 | T15 | T16 | T17 | T18 | T19 | T20 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | 12/04 | 12/04 | 12/04 | 12/04 | 12/04 | 17/04 | 17/04 | 17/04 | 17/04 | 17/04 | 18/04 | 18/04 | 18/04 | 18/04 | 18/04 | 18/04 | 20/04 | 20/04 | 20/04 | 20/04 |
| Grey Wagtail |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 | 5 |


| Transect No. | T21 | T22 | T23 | T24 | T25 | T26 | T27 | T28 | T29 | T30 | T31 | T32 | T33 | T34 | T35 | T36 | T37 | T38 | T39 | T40 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | 20/04 | 20/04 | $\begin{aligned} & 25 / \\ & 04 \end{aligned}$ | 25/04 | 25/04 | 25/04 | 25/04 | 27/04 | 27/04 | 27/04 | 27/04 | 27/04 | 27/04 | 28/04 | 28/04 | 28/04 | 28/04 | 28/04 | 28/04 | 28/04 |
| Species |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Barn Swallow |  |  |  | 2 |  |  |  |  | 2 |  | 2 | 2 |  |  | 2 | 3 |  | 2 | 2 |  |
| Blackbird | 11 | 3 | 4 | 8 | 4 | 7 | 3 | 5 | 2 | 3 | 4 | 8 | 4 | 7 | 4 | 5 | 12 | 13 | 5 | 5 |
| Blackcap | 2 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 |  |  |  |  | 1 | 1 | 2 |
| Blue Tit |  |  |  | 3 |  |  |  | 3 |  |  | 1 |  |  | 1 |  | 3 | 3 | 4 | 2 | 1 |
| Bullfinch |  |  |  |  |  |  | 2 |  |  | 2 | 2 |  |  |  |  |  |  | 2 |  |  |
| Chaffinch | 11 | 4 | 3 | 4 | 8 | 6 | 7 | 4 | 2 | 5 | 6 | 6 | 9 | 5 |  |  | 4 | 4 | 7 | 6 |
| Chiffchaff | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |  | 2 | 1 |  |  | 1 | 1 | 1 | 3 |
| Coal Tit |  |  |  | 2 |  |  |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| Cuckoo |  | 1 | 1 |  |  |  |  |  | 1 |  | 1 |  |  | 1 |  |  |  |  |  |  |
| Dunnock |  | 1 | 2 | 2 | 2 | 1 |  | 1 | 1 | 1 | 1 | 2 |  | 3 |  |  | 3 | 2 |  | 1 |
| Goldcrest |  |  |  | 1 | 3 | 1 |  | 2 | 2 | 2 | 1 | 1 |  |  |  |  |  |  |  |  |
| Goldfinch | 4 | 4 | 2 |  |  | 2 | 2 |  |  |  | 4 | 4 | 2 | 2 |  |  |  | 3 | 4 |  |
| Grasshopper Warbler |  | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |
| Great Tit | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 |  | 2 | 3 |  | 3 | 1 | 2 | 3 | 4 | 2 |  |
| Greenfinch | 2 |  | 1 | 1 | 1 |  |  |  | 1 | 1 | 1 | 1 |  | 2 |  |  |  | 3 |  | 2 |
| Hooded Crow | 4 | 2 | 3 | 6 |  | 4 |  | 6 | 6 | 7 | 7 | 3 | 8 | 4 | 5 | 7 | 7 | 6 | 2 | 7 |

APPENDIX 8.7: General Birds Fieldwork \& Survey Results EIAR 2019, Chapter 8: Biodiversity

| Transect No. | T21 | T22 | T23 | T24 | T25 | T26 | T27 | T28 | T29 | T30 | T31 | T32 | T33 | T34 | T35 | T36 | T37 | T38 | T39 | T40 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | 20/04 | 20/04 | $\begin{aligned} & 25 / \\ & 04 \end{aligned}$ | 25/04 | 25/04 | 25/04 | 25/04 | 27/04 | 27/04 | 27/04 | 27/04 | 27/04 | 27/04 | 28/04 | 28/04 | 28/04 | 28/04 | 28/04 | 28/04 | 28/04 |
| House Sparrow | 10 |  | 5 | 2 |  | 4 | 10 |  | 5 | 8 |  | 4 | 12 | 11 | 15 | 18 | 4 | 20 | 6 | 8 |
| Jackdaw | 4 | 2 | 5 |  |  |  | 4 |  | 2 | 3 | 5 |  | 13 | 7 | 12 | 24 | 16 | 12 | 9 | 4 |
| Jay |  |  |  | 2 | 1 | 1 |  | 1 | 1 |  |  | 1 |  |  |  |  |  |  |  |  |
| Linnet |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Magpie | 3 |  |  | 1 |  |  | 3 |  | 2 | 1 |  |  | 1 | 1 | 2 | 2 | 4 | 3 | 1 | 1 |
| Mallard |  |  |  |  |  |  |  |  |  |  |  | 2 |  | 2 |  |  |  |  |  |  |
| Meadow Pipit | 3 | 9 | 3 | 3 |  | 4 | 3 | 5 | 1 | 1 | 4 | 5 |  | 4 |  |  |  | 2 | 3 | 5 |
| Mistle Thrush | 2 | 2 |  | 2 | 1 | 2 |  |  | 2 | 2 | 1 | 1 |  | 1 |  |  |  |  | 1 | 1 |
| Pheasant |  | 1 | 1 | 1 |  |  |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  | 1 |  |
| Pied Wagtail | 5 | 2 | 2 | 2 |  |  | 4 |  | 4 | 2 | 2 | 3 | 2 | 4 | 8 | 6 | 5 | 4 | 6 | 2 |
| Redpoll |  |  | 4 |  |  |  |  |  |  | 4 |  |  |  |  |  |  |  |  |  |  |
| Reed Bunting |  | 2 | 2 |  |  |  |  |  | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |
| Robin | 4 | 2 | 3 | 3 | 4 | 3 | 4 |  |  |  | 3 | 5 | 3 | 4 | 1 |  | 5 | 5 | 4 | 4 |
| Rook |  | 6 | 10 | 7 | 16 | 9 | 25 |  | 8 | 12 | 24 |  | 18 | 21 | 17 | 17 | 23 | 13 | 14 | 19 |
| Sparrowhawk |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Herring Gull |  |  |  |  |  |  |  |  |  |  | 3 |  |  | 2 |  |  |  |  |  |  |
| Woodpigeon | 2 | 1 | 2 | 2 | 1 |  | 1 | 1 |  | 1 | 1 | 2 | 3 | 2 |  | 1 | 4 | 2 | 2 | 4 |
| Collared Dove |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 |  |
| Kestrel |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
| Raven |  | 2 | 2 | 1 |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
| Skylark | 2 | 3 | 2 | 1 |  |  |  | 2 |  | 1 |  |  |  | 1 |  |  |  |  |  |  |
| Sand Martin |  |  |  |  |  |  | 4 |  | 2 | 3 |  | 2 |  | 2 |  |  |  |  | 6 |  |
| House Martin | 2 |  |  |  |  |  |  |  |  |  |  | 2 | 2 |  |  | 2 |  |  |  |  |

APPENDIX 8.7: General Birds Fieldwork \& Survey Results EIAR 2019, Chapter 8: Biodiversity

| Transect No. | T21 | T22 | T23 | T24 | T25 | T26 | T27 | T28 | T29 | T30 | T31 | T32 | T33 | T34 | T35 | T36 | T37 | T38 | T39 | T40 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | 20/04 | 20/04 | $\begin{aligned} & 25 / \\ & 04 \end{aligned}$ | 25/04 | 25/04 | 25/04 | 25/04 | 27/04 | 27/04 | 27/04 | 27/04 | 27/04 | 27/04 | 28/04 | 28/04 | 28/04 | 28/04 | 28/04 | 28/04 | 28/04 |
| Long-tailed Tit |  |  | 2 |  |  |  |  |  |  | 4 |  | 2 |  |  |  |  |  |  |  |  |
| Willow Warbler | 5 | 3 | 2 | 3 | 2 |  | 3 | 5 | 2 | 1 | 2 | 2 | 4 | 7 |  |  | 2 | 4 | 4 | 5 |
| Sedge Warbler |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Whitethroat |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wren | 4 | 3 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 5 | 6 |  | 1 | 5 | 4 | 5 | 5 |
| Starling |  |  | 8 |  |  |  | 7 |  | 6 |  | 12 | 2 | 6 |  | 4 | 11 | 6 | 4 | 6 | 2 |
| Song Thrush | 5 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |  |  |  | 2 | 2 | 2 |  |  | 2 | 2 | 2 | 2 |
| Stonechat |  | 2 | 2 | 2 | 2 |  |  | 2 | 2 |  | 2 | 2 |  | 2 |  |  |  |  |  |  |
| Grey Wagtail | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |
| Siskin |  |  |  |  |  |  |  | 2 |  | 2 |  |  |  |  |  |  |  |  |  |  |

## A8-7.2.2 Results of $\mathbf{2 0 1 9}$ Kingfisher Survey for UWF Grid Connection

Kingfisher surveys following the methodology presented in National Roads Authority (2008) was undertaken in January and May 2019. These surveyed watercourses include the Newport River (W7), Clare River (W26) and Bilboa River (W53) and 23 other watercourses (W5, W7, W8, W9, W18, W21, W22, W23, W26, W28, W29, W30, W33, W35, W39, W41, W42, W46, W47, W48, W49, W50, W51 and W52).. Watercourse crossings were evaluated for any evidence of nest holes within 300 m of crossing locations (in tandem with Otter surveys). In each case banks were inspected for evidence of Kingfisher, and general suitability of banks in proximity to crossing locations for nesting Kingfisher.
Watercourse crossings along the UWF Grid Connection route are generally unsuitable for nesting Kingfisher, which requires sandy or earth banks alongside the watercourse to establish their tunnel/burrow nests.

In addition, Kingfisher surveys extending to 500 m upstream and downstream of W7 Newport River crossing point, following the methodology presented in National Roads Authority (2008), was undertaken on 26 June 2019 (in tandem with the Otter surveys).

A Kingfisher nest was recorded 430m upstream of Rockvale Bridge, Newport River crossing W7, of the proposed UWF Grid Connection.

Table 2: Results of Kingfisher Survey for UWF Grid Connection carried out in June 2019

| Location | Date | Record | Coordinates <br> ITM (x) | Coordinates <br> ITM (y) |
| :--- | :--- | :--- | :--- | :--- |
| Newport River (430m <br> Upstream of Rockvale <br> Bridge - W7) | $26 / 06 / 19$ | Earth bank with Kingfisher <br> nesting potential - No nest <br> hole present | 574163 | 663498 |
| Newport River <br> (450m Upstream of <br> Rockvale Bridge - W7) | $26 / 06 / 19$ | Kingfisher sighted; first flying <br> downstream then upstream | 574182 | 663512 |
| Newport River <br> (540m Upstream of <br> Rockvale Bridge-W7) | $26 / 06 / 19$ | Nest hole in riverbank - <br> evidence of Kingfisher use in <br> the form of whitewash <br> (droppings) | 674255 | 663567 |

## A8-7.2.3 Results of 2019 Barn Owl Survey for UWF Grid Connection

Four buildings within the UWF Grid Connection study area were assessed as having high suitability for Barn Owl. These were all surveyed in July 2019 for occupancy. No signs of occupancy were detected for any of these buildings. One building was too dangerous to enter due to the state of repair. The owner stated that he had occasionally observed Barn Owls during the winter but did not believe that they were breeding at that location.

Table 3: Results of Barn Owl Survey for UWF Grid Connection carried out in July 2019

| House Number | Level of Barn Owl Suitability | Coordinates ITM (x) | Coordinates ITM (y) | Description | Survey Results |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | High | 588330 | 658608 | House missing all   <br> windows but has <br> potential for Barn <br> Owl.  $\|$Parts of roof and <br> chimney are missing. <br> Multiple  entry/exit <br> points and nesting  <br> lopportunities.   | Searched - no evidence of Barn Owl. |
| 2 | High | 588911 | 658779 | Set of old farm buildings with barn, cottage and shed. Slate roof open enough for coverage. | Searched - no evidence of Barn Owl. |
| 3 | High | 586591 | 658227 | The slate roof is intact but the chimney is half missing. | No evidence - no entry points due to intact doors and windows |
| 4 | High | 573624 | 661496 | Old farmhouse and barns with part of the roof of extension missing. Large chimneys. Looks derilict | Owner has occasionally observed Barn Owls during the winter but did not believe that they were breeding. |

## A8-7.2.4 Results of Countryside Bird Surveys 2016 to 2018

## Note on Species colour codes:

Red = Red-listed species in the Birds of Conservation Concern (Colhoun and Cummins, 2013) are those of highest conservation priority

Orange $=$ Amber-listed species in the Birds of Conservation Concern (Colhoun and Cummins, 2013) are those of which are of lesser conservation priority

Green $=$ Green-listed species in the Birds of Conservation Concern (Colhoun and Cummins, 2013) are those of which are of least conservation priority

White $=$ Not assessed/omitted from the Birds of Conservation Concern (Colhoun and Cummins, 2013) list
Table 4: Results of Countryside Bird Surveys undertaken along Mountphilips' transect during the breeding season of 2016.

| Transect No. 40 | 40 - Mountphilips |  |
| :---: | :---: | :---: |
| Visit | May-16 | Jun-16 |
| Species |  |  |
| Barn Swallow | 2 | 7 |
| Blackbird | 13 | 1 |
| Blackcap | 3 | 4 |
| Blue Tit | 1 | 3 |
| Chaffinch | 7 | 8 |
| Chiffchaff | 1 | 1 |
| Coal Tit |  | 1 |
| Dunnock | 4 | 4 |
| Goldcrest |  | 3 |
| Goldfinch |  | 1 |
| Grasshopper Warbler | 1 |  |
| Great Tit | 1 |  |
| Greenfinch | 4 |  |
| Hooded Crow |  | 2 |
| Jackdaw | 3 |  |
| Jay |  | 1 |
| Linnet | 4 | 1 |
| Magpie |  | 2 |
| Mistle Thrush | 1 |  |
| Moorhen |  | 2 |
| Pheasant | 1 | 1 |
| Pied Wagtail | 1 |  |
| Reed Bunting |  | 2 |
| Robin | 12 | 5 |
| Rook | 9 | 10 |
| Siskin | 1 |  |
| Song Thrush | 4 |  |
| Stonechat |  | 3 |


| Transect No.40 | 40-Mountphilips |  |
| :--- | :---: | :---: |
| Visit | May-16 | Jun-16 |
| Willow Warbler | 6 | 3 |
| Wood Pigeon | 2 | 3 |
| Wren | 22 | 14 |
| Total Abundance | $\mathbf{1 0 3}$ | $\mathbf{8 2}$ |
| Species Diversity | $\mathbf{2 2}$ | $\mathbf{2 3}$ |

Table 5: Results of winter bird transect surveys undertaken along Mountphilips' transect during the non-breeding season of 2016/17

| Transect No. 40 | Transect No. 40 - Mountphilips |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Visit | Nov-16 | Dec-16 | Jan-17 | Feb-17 |
| Species |  |  |  |  |
| Wood Pigeon | 1 |  |  |  |
| Meadow Pipit | 15 | 13 |  |  |
| Pied Wagtail | 1 |  |  | 1 |
| Dunnock | 1 | 4 | 1 |  |
| Robin | 3 | 6 | 4 |  |
| Stonechat |  |  |  |  |
| Song Thrush | 1 | 5 | 2 | 2 |
| Mistle Thrush |  |  |  |  |
| Blackbird | 4 | 3 | 1 | 1 |
| Redwing |  | 3 | 10 |  |
| Wren | 2 | 2 | 1 |  |
| Great Tit |  |  | 2 |  |
| Coal Tit | 1 | 3 | 1 |  |
| Magpie |  |  |  | 1 |
| Jay |  | 2 |  |  |
| Rook | 2 |  |  | 5 |
| Starling | 11 |  |  |  |
| Chaffinch | 1 | 1 |  |  |
| Treecreeper | 1 |  |  |  |
| Bullfinch | 1 |  |  |  |
| Reed Bunting | 1 |  |  |  |
| Total Abundance | 46 | 42 | 22 | 10 |
| Species Diversity | 15 | 9 | 8 | 5 |

Table 6: Countryside Bird Survey Results for Mountphilips' transect during 2017 breeding season

|  | Transect No. 40 - Mountphilips |  |
| :---: | :---: | :---: |
| Species | Apr-17 | June-17 |
| Blackbird | 7 | 4 |
| Blackcap | 1 |  |
| Blue Tit | 1 |  |
| Chaffinch | 2 | 3 |
| Chiffchaff | 2 |  |
| Coal Tit | 5 | 6 |
| Fieldfare | 4 |  |
| Goldcrest |  | 1 |
| Hooded Crow | 2 | 1 |
| Jay |  | 1 |
| Magpie |  | 4 |
| Mallard | 2 |  |
| Meadow Pipit |  | 2 |
| Robin | 4 |  |
| Rook | 10 |  |
| Song Thrush | 5 | 3 |
| Stonechat |  | 2 |
| Willow Warbler | 1 | 2 |
| Wood Pigeon | 4 | 4 |
| Wren | 13 | 9 |
| Total Abundance | 63 | 42 |
| Species Diversity | 15 | 13 |

Table 7: Results of winter bird transect surveys undertaken along Mountphilips' transect during the non-breeding season of 2017/18 (November 2017 to December 2017).

| Transect No. 40 | Transect No. 40 - Mountphilips |  |  |
| :---: | :---: | :---: | :---: |
| Visit | Nov-17 | Nov-17 | Dec-17 |
| Species |  |  |  |
| Blackbird | 1 | 8 | 1 |
| Blue Tit | 0 | 1 | 0 |
| Bullfinch | 0 | 2 | 0 |
| Chaffinch | 0 | 1 | 0 |
| Coal Tit | 0 | 1 | 0 |
| Dunnock | 0 | 0 | 0 |
| Goldcrest | 0 | 2 | 0 |
| Great Tit | 0 | 0 | 0 |
| Grey Wagtail | 0 | 0 | 0 |
| Hooded Crow | 1 | 3 | 0 |
| House Sparrow | 0 | 5 | 0 |
| Jackdaw | 0 | 1 | 2 |
| Jay | 0 | 1 | 0 |
| Kestrel | 0 | 0 | 0 |
| Long-tailed Tit | 0 | 0 | 0 |
| Magpie | 0 | 1 | 0 |
| Meadow Pipit | 20 | 1 | 0 |
| Mistle Thrush | 0 | 0 | 0 |
| Pheasant | 0 | 0 | 0 |
| Pied Wagtail | 0 | 0 | 0 |
| Raven | 2 | 0 | 0 |
| Robin | 2 | 9 | 0 |
| Rook | 15 | 2 | 4 |
| Snipe | 0 | 1 | 0 |
| Song Thrush | 0 | 0 | 0 |
| Starling | 40 | 50 | 0 |
| Wood Pigeon | 0 | 1 | 0 |
| Fieldfare | 0 | 0 | 0 |
| Redwing | 0 | 0 | 0 |
| Wren | 0 | 1 | 0 |
| Goldfinch | 0 | 0 | 1 |
| Total Abundance | 81 | 91 | 9 |
| Species Diversity | 7 | 18 | 4 |

Table 8: Results of winter bird transect surveys undertaken along Mountphilips transect during the non-breeding season of 2017/18 (January to February 2018).

| Transect No. 40 | Transect No.40-Mountphilips |  |
| :---: | :---: | :---: |
| Visit | Jan-18 | Feb-18 |
| Species |  |  |
| Blackbird | 2 | 0 |
| Blue Tit | 0 | 1 |
| Bullfinch | 0 | 1 |
| Chaffinch | 0 | 2 |
| Coal Tit | 0 | 0 |
| Dunnock | 0 | 1 |
| Goldcrest | 0 | 0 |
| Great Tit | 1 | 0 |
| Grey Wagtail | 0 | 0 |
| Hooded Crow | 2 | 0 |
| House Sparrow | 0 | 3 |
| Jackdaw | 0 | 4 |
| Jay | 0 | 0 |
| Kestrel | 0 | 0 |
| Long-tailed Tit | 0 | 0 |
| Magpie | 0 | 0 |
| Meadow Pipit | 0 | 0 |
| Mistle Thrush | 0 | 0 |
| Pheasant | 0 | 0 |
| Pied Wagtail | 0 | 0 |
| Raven | 0 | 0 |
| Robin | 1 | 0 |
| Rook | 0 | 30 |
| Snipe | 0 | 0 |
| Song Thrush | 0 | 0 |
| Starling | 0 | 0 |
| Wood Pigeon | 0 | 0 |
| Stonechat | 0 | 0 |
| Fieldfare | 0 | 0 |
| Wren | 0 | 0 |
| Total Abundance | 6 | 42 |
| Species Diversity | 4 | 8 |

Table 9: Hen Harrier Vantage Point Surveys -General Bird Sightlines Non Breeding Season 2016/2017
Table 9: Details of UWF Grid Connection General Bird sightings and the habitats over which the birds were observed from vantage point surveys undertaken during the Hen Harrier UWF Grid Connection Non-breeding season 2016/2017 Vantage Point Surveys. See Appendix 8.4 for Vantage Point locations.

G = Grazing; RG = Rough Grazing; HB = Heath or bog; DE = Deciduous woodland or scrub; GO = Gorse; NF3 = New forestry plantation trees c 1m high; NF4 = New forestry plantation trees $>2 \mathrm{~m}$ high; 2nd F4 = Second rotation forestry plantation trees $>2 \mathrm{~m}$ high;

| VP <br> Na <br> me | Date | Species | $\begin{aligned} & \text { S } \\ & \text { ex } \end{aligned}$ | Time of sighting | G | RG | HB | DE | GO | $\begin{aligned} & \text { NF } \\ & 3 \end{aligned}$ | $\begin{aligned} & \text { NF } \\ & 4 \end{aligned}$ | $\begin{aligned} & \text { 2nd } \\ & \text { F4 } \end{aligned}$ | F | Durati on (s) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | $\begin{aligned} & 18 / 07 / \\ & 2017 \\ & \\ & 18 / 07 / \\ & 2017 \end{aligned}$ | Raven_RN <br> Raven_RN |  | $\begin{aligned} & 12: 07: 0 \\ & 0 \\ & 12: 09: 0 \\ & 0 \end{aligned}$ |  |  | $70$ $30$ |  |  |  |  |  |  |  |
| 10 | $\begin{aligned} & 18 / 07 / \\ & 2017 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 12: 36: 0 \\ & 0 \end{aligned}$ |  |  | 40 |  |  |  |  |  |  |  |
| 11 | $\begin{aligned} & 20 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 15: 25: 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 3 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  |  |
| 11 | $\begin{aligned} & 20 / 07 / \\ & 2017 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 17: 43: 0 \\ & 0 \end{aligned}$ |  | 20 | 20 |  |  |  |  |  |  | 10 |
| 11 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 17: 40: 0 \\ & 0 \end{aligned}$ |  |  | 40 |  |  |  |  |  |  |  |
| 11 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 17: 47: 0 \\ & 0 \end{aligned}$ |  |  | 60 |  |  |  |  |  |  | 40 |
| 11 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 18: 13: 0 \\ & 0 \end{aligned}$ |  |  | 80 |  |  |  |  |  |  |  |
| 11 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 18: 22: 0 \\ & 0 \end{aligned}$ |  |  | 160 |  |  |  |  |  |  |  |
| 11 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 18: 24: 0 \\ & 0 \end{aligned}$ |  |  | 100 |  |  |  |  |  |  |  |
| 11 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 18: 47: 0 \\ & 0 \end{aligned}$ |  | 220 |  |  |  |  |  |  |  |  |
| 11 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & \text { 19:51:0 } \\ & 0 \end{aligned}$ |  |  | 70 |  |  |  |  |  |  |  |
| 11 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & \text { 19:54:0 } \\ & 0 \end{aligned}$ |  |  | 450 |  |  |  |  |  |  | 10 |


| VP <br> Na <br> me | Date | Species | $\begin{aligned} & \text { S } \\ & \text { ex } \end{aligned}$ | Time of sighting | G | RG | HB | DE | GO | $\begin{aligned} & \text { NF } \\ & 3 \end{aligned}$ | $\begin{aligned} & \text { NF } \\ & 4 \end{aligned}$ | $\begin{aligned} & \text { 2nd } \\ & \text { F4 } \end{aligned}$ | F | Durati on (s) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & \text { 20:21:0 } \\ & 0 \end{aligned}$ |  | 70 |  |  |  |  |  |  |  |  |
| 12 | $\begin{aligned} & 20 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 12: 13: 0 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  | 30 |  |
| 12 | $\begin{aligned} & 20 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 12: 37: 0 \\ & 0 \end{aligned}$ |  | 80 |  |  |  |  |  |  | 60 |  |
| 12 | $\begin{aligned} & 20 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & \text { 14:21:0 } \\ & 0 \end{aligned}$ |  | 120 |  |  |  |  |  |  | 40 |  |
| 12 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Sparrowha wk_SH |  | $\begin{aligned} & \text { 14:17:0 } \\ & 0 \end{aligned}$ |  | 145 |  | 10 |  |  |  |  |  |  |
| 12 | $\begin{aligned} & \hline 24 / 07 / \\ & 2017 \end{aligned}$ | Sparrowha wk_SH |  | $\begin{aligned} & 14: 28: 0 \\ & 0 \end{aligned}$ |  | 50 |  | 130 |  |  |  |  |  |  |
| 12 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 13: 58: 0 \\ & 0 \end{aligned}$ |  | 50 |  |  |  |  |  |  |  | 80 |
| 12 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 15: 26: 0 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  |  | 130 |
| 12 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 15: 55: 0 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  |  | 160 |
| 12 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 16: 14: 0 \\ & 0 \end{aligned}$ |  |  |  | 50 |  |  |  |  |  | 130 |
| 12 | $\begin{aligned} & 24 / 07 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 16: 32: 0 \\ & 0 \end{aligned}$ |  | 210 |  |  |  |  |  |  |  | 530 |
| 2 | $\begin{aligned} & \hline 07 / 08 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 15: 55: 0 \\ & 0 \end{aligned}$ |  | 210 |  |  |  |  |  |  |  |  |
| 2 | $\begin{aligned} & 07 / 08 / \\ & 2017 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & \text { 16:01:0 } \\ & 0 \end{aligned}$ | $\begin{aligned} & 2 \\ & 0 \end{aligned}$ | 20 |  |  |  |  |  |  |  |  |
| 2 | $\begin{aligned} & 07 / 08 / \\ & 2017 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 16: 29: 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 2 \\ & 0 \end{aligned}$ | 70 |  |  |  |  |  |  |  |  |
| 2 | $\begin{aligned} & \text { 07/08/ } \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & \text { 17:12:0 } \\ & 0 \end{aligned}$ |  | 40 |  |  |  |  |  |  |  |  |
| 2 | $\begin{aligned} & \hline 07 / 08 / \\ & 2017 \end{aligned}$ | Kestrel_K. |  | $\begin{array}{\|l\|} \hline 17: 54: 0 \\ 0 \end{array}$ |  | 100 |  |  |  |  |  |  |  |  |


| VP <br> Na <br> me | Date | Species | S <br> ex | Time of <br> sighting | G | RG | HB | DE | GO | NF <br> 3 | NF <br> 4 | 2nd <br> F4 | F | Durati <br> on (s) |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 3 | $08 / 08 /$ <br> 2017 | Raven_RN | $16: 40: 0$ <br> 0 |  | 10 |  |  |  |  |  |  | 10 | 20 |  |

## Table 10: Hen Harrier Vantage Point Surveys -General Bird Sightlines Non Breeding Season 2017/2018

Table 10: Details of UWF Grid Connection General Bird sightings and the habitats over which the birds were observed from vantage point surveys undertaken during the Hen Harrier UWF Grid Connection Non-breeding season 2017/2018 Vantage Point Surveys. See Appendix 8.4 for Vantage Point locations.

G = Grazing; RG = Rough Grazing; $\mathrm{HB}=$ Heath or bog; $\mathrm{DE}=$ Deciduous woodland or scrub; GO = Gorse; NF3 = New forestry plantation trees c 1m high; NF4 = New forestry plantation trees $>2 \mathrm{~m}$ high; 2nd F4 = Second rotation forestry plantation trees $>2 \mathrm{~m}$ high;

| VP <br> Na <br> me | Date | Species | $\begin{aligned} & \text { S } \\ & \text { ex } \end{aligned}$ | Time of sighting | G | RG | HB | DE | GO | $\begin{aligned} & \text { NF } \\ & 3 \end{aligned}$ | $\begin{aligned} & \text { NF } \\ & 4 \end{aligned}$ | $\begin{aligned} & \text { 2nd } \\ & \text { F4 } \end{aligned}$ | F | Durati on (s) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7 | $\begin{aligned} & 11 / 09 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 11: 40: 0 \\ & 0 \end{aligned}$ | X |  |  |  |  |  |  |  | x | 21 |
| 7 | $\begin{aligned} & 11 / 09 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & \text { 11:40:0 } \\ & 0 \end{aligned}$ | X |  |  |  |  |  |  |  | x | 21 |
| 7 | $\begin{aligned} & 11 / 09 / \\ & 17 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 11: 55: 0 \\ & 0 \end{aligned}$ | X |  |  |  |  |  |  |  | x | 14 |
| 7 | $\begin{aligned} & 11 / 09 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 13: 14: 0 \\ & 0 \end{aligned}$ | X |  |  | x |  |  |  |  | x | 20 |
| 8 | $\begin{aligned} & 12 / 09 / \\ & 17 \end{aligned}$ | Kestrel_K. |  | 14:22:0 | X | x |  |  | x |  |  |  |  | 115 |
| 5 | $\begin{aligned} & 22 / 11 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 10: 35: 0 \\ & 0 \end{aligned}$ |  | 40 |  |  |  |  |  |  |  | 40 |
| 5 | $\begin{aligned} & 22 / 11 / \\ & 17 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & \text { 11:07:0 } \\ & 0 \end{aligned}$ |  | 120 |  |  |  |  |  |  |  | 120 |
| 4 | $\begin{aligned} & 23 / 11 / \\ & 17 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 10: 55: 0 \\ & 0 \end{aligned}$ |  | 140 |  |  |  |  |  |  |  | 140 |
| 4 | $\begin{aligned} & 23 / 11 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 12: 11: 0 \\ & 0 \end{aligned}$ |  | 110 |  |  |  |  |  |  |  | 110 |
| 4 | $\begin{aligned} & 23 / 11 / \\ & 17 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 12: 23: 0 \\ & 0 \end{aligned}$ | 2 4 0 |  |  |  |  |  |  |  |  | 240 |
| 4 | $\begin{aligned} & 23 / 11 / \\ & 17 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & 12: 31: 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 1 \\ & 7 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  | 170 |
| 5 | $\begin{aligned} & 23 / 11 / \\ & 17 \end{aligned}$ | Golden <br> Plover_GP |  | $\begin{aligned} & 13: 50: 0 \\ & 0 \end{aligned}$ |  | 110 | 20 |  |  |  |  |  |  | 130 |


| VP <br> Na <br> me | Date | Species | $\begin{aligned} & \text { S } \\ & \text { ex } \end{aligned}$ | Time of sighting | G | RG | HB | DE | GO | $\begin{aligned} & \mathrm{NF} \\ & 3 \end{aligned}$ | $\begin{aligned} & \text { NF } \\ & 4 \end{aligned}$ | $\begin{aligned} & \text { 2nd } \\ & \text { F4 } \end{aligned}$ | F | Durati on (s) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | $\begin{aligned} & 23 / 11 / \\ & 17 \end{aligned}$ | Golden <br> Plover_GP |  | $\begin{aligned} & \text { 14:06:0 } \\ & 0 \end{aligned}$ |  | 10 | 30 |  |  |  |  |  |  | 40 |
| 5 | $\begin{aligned} & 23 / 11 / \\ & 17 \end{aligned}$ | Golden <br> Plover_GP |  | $\begin{aligned} & \text { 14:17:0 } \\ & 0 \end{aligned}$ |  | 210 |  |  |  |  |  |  |  | 210 |
| 5 | $\begin{aligned} & 23 / 11 / \\ & 17 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & \text { 14:46:0 } \\ & 0 \end{aligned}$ |  | 320 |  |  |  |  |  |  |  | 320 |
| 5 | $\begin{aligned} & 23 / 11 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 16: 25: 0 \\ & 0 \end{aligned}$ |  | 50 |  |  |  |  |  |  |  | 50 |
| 8 | $\begin{aligned} & 29 / 11 / \\ & 17 \end{aligned}$ | Snipe_SN |  | $\begin{aligned} & \text { 08:37:0 } \\ & 0 \end{aligned}$ |  | 79 |  |  |  |  |  |  |  | 79 |
| 9 | $\begin{aligned} & 29 / 11 / \\ & 17 \end{aligned}$ | Kestrel_K. | $\begin{aligned} & \mathrm{F} \\ & \mathrm{e} \\ & \mathrm{~m} \\ & \mathrm{al} \\ & \mathrm{e} \end{aligned}$ | $\begin{aligned} & 16: 11: 0 \\ & 0 \end{aligned}$ |  | 465 |  |  |  |  |  | 10 |  | 479 |
| 3 | $\begin{aligned} & 29 / 11 / \\ & 17 \end{aligned}$ | meadow <br> Pipit_MP |  | $\begin{aligned} & \text { 11:57:0 } \\ & 0 \end{aligned}$ |  |  |  |  |  | X |  |  |  | 15 |
| 8 | $\begin{aligned} & 28 / 11 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 15: 25: 0 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  | X | 60 |
| 8 | $\begin{aligned} & 28 / 11 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 16: 42: 0 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  | X | 10 |
| 8 | $\begin{aligned} & 28 / 11 / \\ & 17 \end{aligned}$ | Meadow <br> Pipit_MP |  | $\begin{aligned} & \text { 16:06:0 } \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  | X | 5 |
| 12 | $\begin{aligned} & 30 / 11 / \\ & 17 \end{aligned}$ | Meadow <br> Pipit_MP |  | $\begin{aligned} & \text { 08:03:0 } \\ & 0 \end{aligned}$ | X |  |  |  |  |  |  |  |  | 20 |
| 12 | $\begin{aligned} & 30 / 11 / \\ & 17 \end{aligned}$ | Meadow <br> Pipit_MP |  | $\begin{aligned} & 08: 52: 0 \\ & 0 \end{aligned}$ | X |  |  |  |  |  |  |  |  | 5 |
| 12 | $\begin{aligned} & 30 / 11 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 08: 45: 0 \\ & 0 \end{aligned}$ | X |  |  |  |  |  |  |  |  | 20 |
| 12 | $\begin{aligned} & 29 / 11 / \\ & 17 \end{aligned}$ | Kestrel_K. | F <br> e <br> m <br> al <br> e | $\begin{aligned} & 15: 51: 0 \\ & 0 \end{aligned}$ | X |  |  |  |  |  |  |  |  | 20 |


| VP <br> Na <br> me | Date | Species | S <br> ex <br> 12 | Time of <br> sighting <br> 17 | G |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| VP <br> Na <br> me | Date | Species | $\begin{aligned} & \text { S } \\ & \text { ex } \end{aligned}$ | Time of sighting | G | RG | HB | DE | GO | $\begin{aligned} & \text { NF } \\ & 3 \end{aligned}$ | $\begin{aligned} & \text { NF } \\ & 4 \end{aligned}$ | $\begin{aligned} & \text { 2nd } \\ & \text { F4 } \end{aligned}$ | F | Durati on (s) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | $\begin{aligned} & 06 / 12 / \\ & 17 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & \text { 08:36:0 } \\ & 0 \end{aligned}$ | 1 1 1 |  |  |  |  |  |  |  |  | 111 |
| 5 | $\begin{aligned} & 06 / 12 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 10: 58: 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 9 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  | 90 |
| 5 | $\begin{aligned} & 06 / 12 / \\ & 17 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 11: 40: 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 5 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  | 50 |
| 2 | $\begin{aligned} & \text { 05/01/ } \\ & 18 \end{aligned}$ | Kestrel_K. |  | 12:40:0 <br> 0 pm | x |  |  |  |  |  |  |  |  |  |
| 5 | $\begin{aligned} & 02 / 01 / \\ & 18 \end{aligned}$ | Kestrel_K. | F <br> e <br> m <br> al <br> e | $\begin{aligned} & 11: 52: 0 \\ & 0 \end{aligned}$ |  | 57 |  |  |  |  |  |  |  | 57 |
| 1 | $\begin{aligned} & 03 / 01 / \\ & 18 \end{aligned}$ | Kestrel_K. | F <br> e <br> m <br> al <br> e | $\begin{aligned} & 10: 36: 0 \\ & 0 \end{aligned}$ | 8 |  |  |  |  |  |  |  |  | 8 |
| 1 | $\begin{aligned} & 03 / 01 / \\ & 18 \end{aligned}$ | Kestrel_K. | F <br> e <br> m <br> al <br> e | $\begin{aligned} & 14: 12: 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 1 \\ & 8 \end{aligned}$ |  |  |  |  |  |  |  |  | 18 |
| 8 | $\begin{aligned} & 15 / 01 / \\ & 18 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 10: 52: 0 \\ & 0 \end{aligned}$ |  | 48 |  |  |  |  | 74 |  |  | 122 |
| 4 | $\begin{aligned} & 19 / 01 / \\ & 18 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & \text { 14:06:0 } \\ & 0 \end{aligned}$ | $\begin{aligned} & 1 \\ & 6 \end{aligned}$ |  |  |  |  |  |  |  |  | 16 |
| 4 | $\begin{aligned} & 19 / 01 / \\ & 18 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 14: 10: 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 6 \\ & 7 \end{aligned}$ |  |  |  |  |  |  |  |  | 67 |
| 12 | $\begin{aligned} & 05 / 02 / \\ & 18 \end{aligned}$ | Kestrel_K. |  | $\begin{aligned} & \text { 15:33:0 } \\ & 0 \end{aligned}$ | 1 |  |  | 19 |  |  |  |  |  | 21 |
| 1 | $\begin{aligned} & 06 / 02 / \\ & 18 \end{aligned}$ | Sparrowha <br> wk_SH | F e m | $\begin{aligned} & \text { 14:59:0 } \\ & 0 \end{aligned}$ |  |  |  |  | 13 |  |  |  |  | 13 |


| VP <br> Na <br> me | Date | Species | $\begin{aligned} & \text { S } \\ & \text { ex } \end{aligned}$ | Time of sighting | G | RG | HB | DE | GO | $\begin{aligned} & \text { NF } \\ & 3 \end{aligned}$ | $\begin{aligned} & N F \\ & 4 \end{aligned}$ | $\begin{aligned} & \text { 2nd } \\ & \text { F4 } \end{aligned}$ | F | Durati on (s) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | al |  |  |  |  |  |  |  |  |  |  |  |
| 1 | $\begin{aligned} & 06 / 02 / \\ & 18 \end{aligned}$ | Raven_RN |  | $\begin{aligned} & 15: 09: 0 \\ & 0 \end{aligned}$ |  | 26 |  |  |  |  |  |  |  | 26 |
| 4 | $\begin{aligned} & 07 / 02 / \\ & 18 \end{aligned}$ | Sparrowha wk_SH |  | $\begin{aligned} & 12: 39: 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 4 \\ & 0 \end{aligned}$ |  |  |  |  |  |  | $\begin{aligned} & 224 \\ & 0 \end{aligned}$ |  | 2280 |
| 8 | $\begin{aligned} & 01 / 02 / \\ & 18 \end{aligned}$ | Raven |  | 14:10 |  | X |  |  |  |  |  |  |  | 10s |
| 9 | $\begin{aligned} & 02 / 02 / \\ & 18 \end{aligned}$ | Raven |  | 12:41 |  | $\begin{aligned} & x \\ & (6 s) \end{aligned}$ |  |  |  |  |  |  | $\begin{aligned} & x \\ & (8 s) \end{aligned}$ | 14s |
| 7 | $\begin{aligned} & 05 / 02 / \\ & 18 \end{aligned}$ | Kestrel |  | 11:00 |  | x |  |  |  |  |  |  |  | 5s |
| 2 | $\begin{aligned} & 06 / 02 / \\ & 18 \end{aligned}$ | Kestrel | m | 12.05 |  | X |  |  |  |  |  |  |  | 15s |
| 2 | $\begin{aligned} & 06 / 02 / \\ & 18 \end{aligned}$ | Kestrel | m | 14:33 |  | x |  |  |  |  |  |  |  | 24s |
| 2 | $\begin{aligned} & \text { 06/02/ } \\ & 18 \end{aligned}$ | Kestrel | m | 15:35 |  | x |  |  |  |  |  |  |  | 129s |
| 2 | $\begin{aligned} & 06 / 02 / \\ & 18 \end{aligned}$ | Golden <br> Plover |  | 16:00 | X |  |  |  |  |  |  |  |  |  |

## A8-7.2.5 Survey Results - Other Elements

## A8-7.2.5.1 Incidental Bird Recordings at Overhead Line Activities Study Area

All incidental sightings of birds were recorded within the overhead lines activities study are during a site walkover (January 2018). Table 11 lists the bird species and the total number of each species recorded. A total of 23 bird species consisting of 109 individual birds were recorded.

Table 11: Birds Recorded during Overhead Line Activities Surveys

| Species | BOCCI status Cummins, 2013) | (Colhoun and | Total Count |
| :---: | :---: | :---: | :---: |
| Blackbird | Green |  | 7 |
| Blue Tit | Green |  | 3 |
| Bullfinch | Green |  | 5 |
| Chaffinch | Green |  | 22 |
| Coal Tit | Green |  | 2 |
| Goldcrest | Amber |  | 2 |
| Great Tit | Green |  | 6 |
| House Sparrow | Amber |  | 6 |
| Jay | Green |  | 2 |
| Long-tailed Tit | Green |  | 5 |
| Pied Wagtail | Green |  | 1 |
| Robin | Amber |  | 9 |
| Rook | Green |  | 2 |
| Snipe | Amber |  | 11 |
| Song Thrush | N/A |  | 2 |
| Starling | Amber |  | 5 |
| Stonechat | Amber |  | 1 |
| Wood Pigeon | Green |  | 3 |
| Little Egret | Green |  | 1 |
| Magpie | Green |  | 6 |
| Goldfinch | Green |  | 5 |
| Redwing | Green |  | 1 |
| Wren | Green |  | 2 |
| Species Diversity |  | 23 |  |
| Total Abundance |  | 109 |  |

## A8-7.2.6 General Bird Species Recorded and Corresponding Sensitivity Rating

The table below, lists all species recorded across all surveys and all project elements. It should be noted that not all species will have been recorded as present at the location of works pertinent to the UWF Grid Connection development under consideration.

The corresponding sensitivity rating in line with the criteria outlined in Section 8.1.8 of the Biodiversity Chapter is also provided. Species included here includes those recorded from standardised survey effort and additionally anecdotal observations.

## Note on Species colour codes:

Red = Red-listed species in the Birds of Conservation Concern (Colhoun and Cummins, 2013) are those of highest conservation priority

Orange $=$ Amber-listed species in the Birds of Conservation Concern (Colhoun and Cummins, 2013) are those of which are of lesser conservation priority

Green = Green-listed species in the Birds of Conservation Concern (Colhoun and Cummins, 2013) are those of which are of least conservation priority

White $=$ Not assessed/omitted from the Birds of Conservation Concern (Colhoun and Cummins, 2013) list
Table 12: Bird Sensitivity Rating for bird species recorded across all bird surveys

| Species | BOCCI Status | EU Birds Directive | Sensitivity Rating |
| :---: | :---: | :---: | :---: |
| Barn Swallow | Amber | - | Low |
| Blackbird | Green | - | Negligible |
| Blackcap | Green | - | Negligible |
| Blue Tit | Green | - | Negligible |
| Bullfinch | Green | - | Negligible |
| Buzzard | Green | - | Negligible |
| Chaffinch | Green | - | Negligible |
| Chiffchaff | Green | - | Negligible |
| Coal Tit | Green | - | Negligible |
| Collared Dove | Green | - | Negligible |
| Common | Amber | - | Low |
| Crossbill | Green | - | Negligible |
| Cuckoo | Green | - | Negligible |
| Curlew | Red | - | High |
| Dunnock | Green | - | Negligible |
| Fieldfare | N/A | - | Negligible |
| Goldcrest | Amber | - | Low |
| Golden Plover | Red | Annex I | High |
| Goldfinch | Green | - | Negligible |
| Grasshopper Warbler | Green | - | Negligible |
| Great Tit | Green | - | Negligible |
| Greenfinch | Amber | - | Low |
| Grey Wagtail | Red | - | Low |
| Hen Harrier | Amber | Annex I | Very High |
| Hooded Crow | Green | - | Negligible |


| Species | BOCCI Status | EU Birds Directive | Sensitivity Rating |
| :---: | :---: | :---: | :---: |
| House Martin | Green | - | Negligible |
| House Sparrow | Amber | - | Low |
| Jackdaw | Green | - | Negligible |
| Jay | Green | - | Negligible |
| Kestrel | Amber | - | Low |
| Lesser Redpoll | Green | - | Negligible |
| Linnet | Amber | - | Low |
| Long-tailed Tit | Green | - | Negligible |
| Magpie | Green | - | Negligible |
| Mallard | Green | - | Negligible |
| Meadow Pipit | Red | - | Medium |
| Mistle Thrush | Amber | - | Low |
| Moorhen | Green | - | Negligible |
| Peregrine Falcon | Green | Annex I | Low |
| Pheasant | N/A | - | Negligible |
| Pied Wagtail | Green | - | Negligible |
| Raven | Green | - | Negligible |
| Red Grouse | Red | - | Medium |
| Redwing | N/A | - | Negligible |
| Reed Bunting | Green | - | Negligible |
| Robin | Amber | - | Low |
| Rook | Green | - | Negligible |
| Sand Martin | Amber | - | Low |
| Sedge Warbler | Green | - | Negligible |
| Siskin | Green | - | Negligible |
| Snipe | Amber | - | Low |
| Skylark | Amber | - | Low |
| Song Thrush | Green | - | Negligible |
| Sparrowhawk | Amber | - | Low |
| Starling | Amber | - | Low |
| Stonechat | Amber | - | Low |
| Swift | Amber | - | Low |
| Tree Creeper | Green | - | Negligible |
| Wheatear | Amber | - | Low |
| Whitethroat | Green | - | Negligible |
| Willow Warbler | Green | - | Negligible |
| Wood Pigeon | Green | - | Negligible |
| Woodcock | Red | - | Low |
| Wren | Green | - | Negligibe |

