

## **Appendix to Appropriate Assessment Report**

### **Appendix A7: Hen Harrier Surveys at Upperchurch Windfarm 2015 – 2017**

The data and descriptions in this appendix have informed the cumulative evaluations in the Appropriate Assessment Report.

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### **AA7.1 Upperchurch Windfarm 2015 to 2017 Survey Background**

Ecopower Developments commissioned Joe Adamson (independent bird surveyor) to undertake Hen Harrier surveys between March 2015 to April 2017. Joe is a graduate of the Royal Society of Chemistry in Applied Chemistry and has a MSc. in Environmental Resource Management. He is a full member of the Chartered Institute of Ecology and Environmental Management (MCIEEM) since 2010. Joe Adamson is an Ecologist, working in the energy sector since 1997, mainly on natural gas pipelines and windfarms, in a range of disciplines, including ornithological surveys & ecological surveys. Joe has over 40 years of field observation experience of birds and has worked on over 75 windfarms throughout Ireland, conducting ornithological surveys.

## AA7.2 Upperchurch Windfarm 2015 to 2017 Survey Results

**Table 1: Breeding Season (Summer) 2015 Hen Harrier Sighting Notes**

| VP Name | Date       | Species       | Sex            | Time of sighting | Habitat            | Duration (s) | Activity | Bird Notes                                                                               |
|---------|------------|---------------|----------------|------------------|--------------------|--------------|----------|------------------------------------------------------------------------------------------|
| 2       | 26/03/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 3       | 26/03/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 1       | 27/03/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 2       | 27/03/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 2       | 27/03/2015 | Hen Harrier   | Male (Adult)   | 11:42            | Wet Heath          | 120 sec      | Foraging | First observed over heath. Started to circle, gaining height, flying in a N.W direction. |
| 2       | 27/03/2015 | Hen Harrier   | Male (Adult)   | 11:42            | Wet Heath          | 125 sec      | Soaring  | First observed over heath. Started to circle, gaining height, flying in a N.W direction. |
| 2       | 27/03/2015 | Hen Harrier   | Male (Adult)   | 11:42            | Sitka Spruce       | 20           | Soaring  | First observed over heath. Started to circle, gaining height, flying in a N.W direction. |
| 2       | 27/03/2015 | Hen Harrier   | Female (Adult) | 14:48            | Conifer Plantation | 15           | Foraging | Foraging along path/track, very low                                                      |
| 3       | 28/03/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 4       | 28/03/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 1       | 29/03/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 4       | 29/03/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 2       | 16/04/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 3       | 16/04/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 1       | 17/04/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 2       | 17/04/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 3       | 17/04/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |
| 1       | 18/04/2015 | Nil Sightings |                |                  |                    |              |          |                                                                                          |

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| VP Name | Date       | Species       | Sex            | Time of sighting | Habitat            | Duration (s) | Activity | Bird Notes                                                              |
|---------|------------|---------------|----------------|------------------|--------------------|--------------|----------|-------------------------------------------------------------------------|
| 4       | 18/04/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 5       | 18/04/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 4       | 19/04/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 5       | 19/04/2015 | Hen Harrier   | Female (Adult) | 11:33            | Diciduous Forestry | 7 sec        | Foraging | Observes briefly flying over brow of hill at edge of diciduous forestry |
| 3       | 27/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 4       | 27/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 1       | 28/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 5       | 28/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 2       | 29/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 3       | 29/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 4       | 30/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 5       | 30/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 1       | 31/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 2       | 31/05/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 1       | 17/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 2       | 17/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 2       | 18/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 3       | 18/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 1       | 19/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 3       | 19/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 4       | 20/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 5       | 20/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 4       | 21/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 5       | 21/06/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |
| 2       | 20/07/2015 | Nil Sightings |                |                  |                    |              |          |                                                                         |

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| VP Name | Date       | Species       | Sex | Time of sighting | Habitat | Duration (s) | Activity | Bird Notes |
|---------|------------|---------------|-----|------------------|---------|--------------|----------|------------|
| 5       | 20/07/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 21/07/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 21/07/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 21/07/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 22/07/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 22/07/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 23/07/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 23/07/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 24/07/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 23/08/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 23/08/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 24/08/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 24/08/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 25/08/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 25/08/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 26/08/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 26/08/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 27/08/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 27/08/2015 | Nil Sightings |     |                  |         |              |          |            |

**Table 2: Breeding Season (Summer) 2015 Hen Harrier Survey Results (Time Date and Weather Conditions)**

| VP Name | Date       | Observer | Rain             | Cloud    | Visibility | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|------------------|----------|------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 2       | 26/03/2015 | JA       | DRY              | OVERCAST | EXCELLENT  | F2-3             | NW             | 8            | 1000       | 1300     | 3H                       |
| 3       | 26/03/2015 | JA       | DRY              | OVERCAST | EXCELLENT  | F2-3             | NW             | 10           | 1330       | 1630     | 3H                       |
| 1       | 27/03/2015 | JA       | OCC. SHOWERS     | OVERCAST | GOOD       | F3               | SE             | 8            | 1540       | 1840     | 3H                       |
| 2       | 27/03/2015 | JA       | SQUALLS          | OVERCAST | GOOD       | F2-3             | SE             | 8            | 0900       | 1200     | 3H                       |
| 2       | 27/03/2015 | JA       | OCC. SHOWERS     | OVERCAST | EXCELLENT  | F3               | SE             | 8            | 1230       | 1530     | 3H                       |
| 3       | 28/03/2015 | JA       | HEAVY SQUALLS    | OVERCAST | GOOD       | F3-4             | W              | 8            | 1320       | 1620     | 3H                       |
| 4       | 28/03/2015 | JA       | HEAVY SQUALLS    | OVERCAST | GOOD       | F3-4             | W              | 10           | 1000       | 1300     | 3H                       |
| 1       | 29/03/2015 | JA       | OCC. SHOWERS     | OVERCAST | GOOD       | F2-3             | SW             | 10           | 0900       | 1200     | 3H                       |
| 4       | 29/03/2015 | JA       | OCC. SHOWERS     | OVERCAST | GOOD       | F2-3             | SW             | 10           | 1230       | 1530     | 3H                       |
| 2       | 16/04/2015 | JA       | NONE             | SUNNY    | EXCELLENT  | F2-3             | SE             | 12           | 1330       | 1630     | 3H                       |
| 3       | 16/04/2015 | JA       | NONE             | SUNNY    | EXCELLENT  | F2-3             | SE             | 10 TO 12     | 1000       | 1300     | 3H                       |
| 1       | 17/04/2015 | JA       | NONE             | NONE     | GOOD       | F1               | NE             | 14           | 1530       | 1830     | 3H                       |
| 2       | 17/04/2015 | JA       | NONE             | SOME     | CLEAR      | F1               | NE             | 8            | 0900       | 1200     | 3H                       |
| 3       | 17/04/2015 | JA       | NONE             | SOME     | EXCELLENT  | F1               | NE             | 12           | 1215       | 1515     | 3H                       |
| 1       | 18/04/2015 | JA       | NONE             | NONE     | GOOD       | F4               | E              | 6            | 1215       | 1515     | 3H                       |
| 4       | 18/04/2015 | JA       | NONE             | NONE     | EXCELLENT  | F4               | E              | 7            | 1530       | 1830     | 3H                       |
| 5       | 18/04/2015 | JA       | NONE             | LITTLE   | EXCELLENT  | F4               | E              | 6            | 0900       | 1200     | 3H                       |
| 4       | 19/04/2015 | JA       | NONE             | NONE     | EXCELLENT  | F1-2             | E              | 15           | 1330       | 1630     | 3H                       |
| 5       | 19/04/2015 | JA       | NONE             | NONE     | EXCELLENT  | F1-2             | E              | 12           | 1000       | 1300     | 3H                       |
| 3       | 27/05/2015 | JA       | HEAVY            | NONE     | GOOD       | F4-5             | SW             | 10           | 1300       | 1600     | 3H                       |
| 4       | 27/05/2015 | JA       | HEAVY            | NONE     | OKAY       | F4               | SW             | 10           | 0930       | 1230     | 3H                       |
| 1       | 28/05/2015 | JA       | FREQUENT SQUALLS | NONE     | GOOD       | F4-5             | NW             | 8            | 0930       | 1230     | 3H                       |
| 5       | 28/05/2015 | JA       | FREQUENT SQUALLS | NONE     | GOOD       | F4-5             | NW             | 9            | 1245       | 1545     | 3H                       |
| 2       | 29/05/2015 | JA       | HEAVY            | NONE     | GOOD       | F4               | NW             | 8 TO 10      | 0900       | 1200     | 3H                       |
| 3       | 29/05/2015 | JA       | NONE             | CLEAR    | EXCELLENT  | F4               | NW             | 10           | 1215       | 1515     | 3H                       |

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| VP Name | Date       | Observer | Rain               | Cloud             | Visibility | Wind Speed (Bft)  | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|--------------------|-------------------|------------|-------------------|----------------|--------------|------------|----------|--------------------------|
| 4       | 30/05/2015 | JA       | NONE               | SUNNY             | GOOD       | F2-3              | SW             | 12           | 1245       | 1545     | 3H                       |
| 5       | 30/05/2015 | JA       | NONE               | CLOUDY AT TIMES   | GOOD       | F2-3              | SW             | 12 TO 13     | 0930       | 1230     | 3H                       |
| 1       | 31/05/2015 | JA       | NONE               | SUNNY             | GOOD       | F3                | SW             | 14           | 1250       | 1550     | 3H                       |
| 2       | 31/05/2015 | JA       | NONE               | SUNNY             | GOOD       | F2-3              | SW             | 12 TO 13     | 0930       | 1230     | 3H                       |
| 1       | 17/06/2015 | JA       | NONE               | SUNNY             | EXCELLENT  | F3                | SW             | 13           | 1000       | 1300     | 3H                       |
| 2       | 17/06/2015 | JA       | NONE               | CLEAR             | EXCELLENT  | F3                | SW             | 14           | 1315       | 1515     | 2H                       |
| 2       | 18/06/2015 | JA       | NONE               | CLEAR             | EXCELLENT  | F2-3 VEERING F3-4 | SW TO W        | 18 TO 19     | 1000       | 1200     | 2H                       |
| 3       | 18/06/2015 | JA       | NONE               | HAZY              | GOOD       | F3-4              | W              | 19 TO 20     | 1300       | 1600     | 3H                       |
| 1       | 19/06/2015 | JA       | NONE               | OVERCAST          | GOOD       | F2-3              | SW             | 18 TO 19     | 0930       | 1230     | 3H                       |
| 3       | 19/06/2015 | JA       | NONE               | SUNNY             | GOOD       | F2-3              | SW             | 18           | 1245       | 1545     | 3H                       |
| 4       | 20/06/2015 | JA       | NONE               | SUNNY THEN CLOUDY | EXCELLENT  | F2-3              | SW             | 15           | 0930       | 1230     | 3H                       |
| 5       | 20/06/2015 | JA       | NONE               | SUNNY, SOME CLOUD | CLEAR      | F3                | SW             | 18           | 1300       | 1600     | 3H                       |
| 4       | 21/06/2015 | JA       | NONE               | SUNNY, SOME CLOUD | GOOD       | F2-3              | SW             | 15           | 1000       | 1300     | 3H                       |
| 5       | 21/06/2015 | JA       | NONE               | CLEAR             | EXCELLENT  | F2-3              | SW             | 16           | 1300       | 1600     | 3H                       |
| 2       | 20/07/2015 | JA       | OCC. SQUALLS       | OVERCAST          | GOOD       | F3-4              | SW             | 14           | 0930       | 1230     | 3H                       |
| 5       | 20/07/2015 | JA       | OCC. SQUALLS       | OVERCAST          | GOOD       | F3-4              | SW             | 14           | 1300       | 1600     | 3H                       |
| 1       | 21/07/2015 | JA       | OCC. SQUALLS       | SOME CLOUD        | EXCELLENT  | F5                | WSW            | 12           | 1215       | 1515     | 3H                       |
| 2       | 21/07/2015 | JA       | OCC. SQUALLS       | CLOUDY            | EXCELLENT  | F4-5              | W              | 12           | 1515       | 1815     | 3H                       |
| 3       | 21/07/2015 | JA       | OCC. SQUALLS       | SOME CLOUD        | GOOD       | F4-5              | WSW            | 10           | 0900       | 1200     | 3H                       |
| 4       | 22/07/2015 | JA       | NONE               | OVERCAST          | GOOD       | F3                | NW             | 15           | 1230       | 1530     | 3H                       |
| 5       | 22/07/2015 | JA       | NONE               | CLOUDY            | GOOD       | F2-3              | NW             | 15           | 0930       | 1230     | 3H                       |
| 1       | 23/07/2015 | JA       | OCC. SHOWERS       | OVERCAST          | GOOD       | F2-3              | NW             | 14           | 1000       | 1300     | 3H                       |
| 4       | 23/07/2015 | JA       | SHOWERY            | OVERCAST          | GOOD       | F3-4              | NW             | 14 TO 15     | 1330       | 1630     | 3H                       |
| 3       | 24/07/2015 | JA       | NONE               | CLOUDY AT TIMES   | GOOD       | F2                | SW             | 14 TO 15     | 0930       | 1230     | 3H                       |
| 2       | 23/08/2015 | JA       | CONTINUOUS SQUALLS | OVERCAST          | GOOD       | F2-3              | SW             | 16           | 1000       | 1300     | 3H                       |
| 3       | 23/08/2015 | JA       | SQUALLS            | NONE              | GOOD       | F2-3              | SW             | 16           | 1330       | 1630     | 3H                       |
| 1       | 24/08/2015 | JA       | NONE               | CLEAR             | EXCELLENT  | F4                | NW             | 15           | 1330       | 1630     | 3H                       |

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| VP Name | Date       | Observer | Rain         | Cloud                  | Visibility    | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|--------------|------------------------|---------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 2       | 24/08/2015 | JA       | OCC. DRIZZLE | OVERCAST               | GOOD          | F3               | NW             | 15           | 1000       | 1300     | 3H                       |
| 1       | 25/08/2015 | JA       | HEAVY RAIN   | DULL                   | POOR AT TIMES | F2-3             | SW             | 12           | 0930       | 1230     | 3H                       |
| 3       | 25/08/2015 | JA       | HEAVY RAIN   | NONE                   | GOOD          | F2               | SW             | 12           | 1300       | 1600     | 3H                       |
| 4       | 26/08/2015 | JA       | NONE         | SUNNY, OCC. CLOUD      | EXCELLENT     | F4               | SW             | 15           | 1245       | 1545     | 3H                       |
| 5       | 26/08/2015 | JA       | NONE         | SUNNY, SOME CLOUD      | CLEAR         | F3-4             | SW             | 15           | 0930       | 1230     | 3H                       |
| 4       | 27/08/2015 | JA       | NONE         | SUNNY. CLOUDY AT TIMES | GOOD          | F3-4             | SW             | 15           | 1300       | 1600     | 3H                       |
| 5       | 27/08/2015 | JA       | NONE         | SUNNY                  | CLEAR         | F3-4             | SW             |              | 0930       | 1230     | 3H                       |

**Table 3: Non-Breeding Season (Winter) 2015 Hen Harrier Sighting Notes**

| VP Name | Date       | Species       | Sex | Time of sighting | Habitat | Duration (s) | Activity | Bird Notes |
|---------|------------|---------------|-----|------------------|---------|--------------|----------|------------|
| 1       | 17/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 15/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 15/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 16/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 16/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 17/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 18/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 18/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 19/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 19/09/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 20/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 21/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 21/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 22/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 29/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 29/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 30/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 30/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 31/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 31/10/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 11/11/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 12/11/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 13/11/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 13/11/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 25/11/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 25/11/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 26/11/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 26/11/2015 | Nil Sightings |     |                  |         |              |          |            |

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| VP Name | Date       | Species       | Sex | Time of sighting | Habitat | Duration (s) | Activity | Bird Notes |
|---------|------------|---------------|-----|------------------|---------|--------------|----------|------------|
| 4       | 27/11/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 27/11/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 11/12/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 11/12/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 12/12/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 13/12/2015 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 13/12/2015 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 22/12/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 22/12/2015 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 22/12/2015 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 23/12/2015 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 14/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 14/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 15/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 15/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 16/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 16/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 17/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 17/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 26/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 26/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 27/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 27/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 27/01/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 11/02/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 11/02/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 12/02/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 12/02/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 16/02/2016 | Nil Sightings |     |                  |         |              |          |            |

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| VP Name | Date       | Species       | Sex | Time of sighting | Habitat | Duration (s) | Activity | Bird Notes |
|---------|------------|---------------|-----|------------------|---------|--------------|----------|------------|
| 3       | 16/02/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 17/02/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 17/02/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 17/02/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 18/02/2016 | Nil Sightings |     |                  |         |              |          |            |

**Table 4: Non-Breeding Season (Winter) 2015 Hen Harrier Survey Results (Time Date and Weather Conditions)**

| VP Name | Date       | Observer | Rain                     | Cloud                     | Visibility    | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|--------------------------|---------------------------|---------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 1       | 17/09/2015 | JA       | NONE                     | SOME CLOUD                | EXCELLENT     | F2-2             | SW             | 12           | 0930       | 1230     | 3H                       |
| 2       | 15/09/2015 | JA       | NONE                     | CLOUDY                    | GOOD          | < F1             | NW             | 17 TO 18     | 1100       | 1400     | 3H                       |
| 3       | 15/09/2015 | JA       | NONE                     | OVERCAST                  | GOOD          | F1               | NW             | 15           | 1405       | 1705     | 3H                       |
| 2       | 16/09/2015 | JA       | NONE                     | LOW CLOUD AT TIMES        | GOOD          | F2-3             | N              | 10           | 0930       | 1230     | 3H                       |
| 3       | 16/09/2015 | JA       | NONE                     | BRIGHT, OCC. CLOUD        | GOOD          | F2-3             | N              | 10           | 1235       | 1535     | 3H                       |
| 5       | 17/09/2015 | JA       | NONE                     | SOME CLOUD                | EXCELLENT     | F2               | SW             | 11 TO 12     | 1300       | 1600     | 3H                       |
| 1       | 18/09/2015 | JA       | HEAVY RAIN               | NONE                      | POOR AT TIMES | F3-4             | SW             | 14           | 1000       | 1300     | 3H                       |
| 4       | 18/09/2015 | JA       | HEAVY RAIN               | NONE                      | POOR          | F3-4             | SW             | 12           | 1330       | 1630     | 3H                       |
| 4       | 19/09/2015 | JA       | NONE                     | SUNNY, CLOUDY AT TIMES    | GOOD          | F3-4             | SW             | 14           | 1330       | 1630     | 3H                       |
| 5       | 19/09/2015 | JA       | NONE                     | SUNNY, SOME CLOUD         | GOOD          | F3-4             | SW             | 15           | 1000       | 1300     | 3H                       |
| 4       | 20/10/2015 | JA       | MISTY, CLEARING AT TIMES | NONE                      | GOOD          | F3-4             | SW             | 9 TO 10      | 1300       | 1600     | 3H                       |
| 2       | 21/10/2015 | JA       | HEAVY MISTY RAIN         | NONE                      | POOR          | F3-4             | SW             | 10           | 1000       | 1300     | 3H                       |
| 3       | 21/10/2015 | JA       | HEAVY MISTY RAIN         | NONE                      | POOR          | F3-4             | SW             | 10           | 1315       | 1615     | 3H                       |
| 4       | 22/10/2015 | JA       | NONE                     | BRIGHT AT TIMES, OVERCAST | GOOD          | F4               | NW             | 9            | 1000       | 1300     | 3H                       |
| 1       | 29/10/2015 | JA       | NONE                     | SUNNY                     | GOOD          | F1 BECOMING F3-4 | SW             | 9            | 0930       | 1230     | 3H                       |
| 5       | 29/10/2015 | JA       | NONE                     | SUNNY                     | GOOD          | F3-4             | SW             | 8 TO 9       | 1245       | 1545     | 3H                       |
| 1       | 30/10/2015 | JA       | NONE                     | SOME SUN                  | GOOD          | F4               | SW             | 8            | 0930       | 1230     | 3H                       |
| 2       | 30/10/2015 | JA       | NONE                     | BRIGHT                    | GOOD          | F4               | SW             | 8            | 1240       | 1540     | 3H                       |
| 3       | 31/10/2015 | JA       | NONE                     | OVERCAST, CLOUDY, CLEAR   | GOOD          | F3-4             | SW             | 8            | 0930       | 1230     | 3H                       |
| 5       | 31/10/2015 | JA       | NONE                     | OVERCAST, CLOUDY, CLEAR   | GOOD          | F3-4             | SW             | 8            | 1240       | 1540     | 3H                       |
| 1       | 11/11/2015 | JA       | SHOWERS                  | DULL                      | GOOD          | F3-4 OCC. 4-5    | SW             | 8            | 1310       | 1610     | 3H                       |
| 2       | 12/11/2015 | JA       | SHOWERS                  | DULL, OVERCAST            | GOOD          | F5-6             | SW             | 7 TO 8       | 1000       | 1200     | 2H                       |
| 4       | 13/11/2015 | JA       | SHOWERS                  | DULL                      | GOOD          | F4-5             | SW             | 9            | 1310       | 1610     | 3H                       |

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| VP Name | Date       | Observer | Rain                          | Cloud                   | Visibility    | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|-------------------------------|-------------------------|---------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 5       | 13/11/2015 | JA       | NONE                          | DULL, OVERCAST          | GOOD          | F4-5             | SW             | 8 TO 9       | 1000       | 1300     | 3H                       |
| 1       | 25/11/2015 | JA       | FREQUENT SHOWERS              | SUNNY                   | GOOD          | F4-5             | W              | 10           | 0930       | 1230     | 3H                       |
| 3       | 25/11/2015 | JA       | FREQUENT SHOWERS              | SUNNY                   | GOOD          | F4-5             | W              | 10           | 1245       | 1545     | 3H                       |
| 2       | 26/11/2015 | JA       | DENSE MIST, OCC. DRIZZLE      | NONE                    | POOR          | F2               | W              | 9 TO 10      | 1000       | 1300     | 3H                       |
| 3       | 26/11/2015 | JA       | MIST, CLEARING AT TIMES       | NONE                    | GOOD          | F2               | W              | 9 TO 10      | 1315       | 1515     | 2H                       |
| 4       | 27/11/2015 | JA       | MISTY RAIN, CLEARING LATER    | NONE                    | POOR          | F2-3             | W              | 9 TO 10      | 1245       | 1545     | 3H                       |
| 5       | 27/11/2015 | JA       | MISTY RAIN, CLEARING AT TIMES | NONE                    | POOR AT TIMES | F2-3             | W              | 8 TO 9       | 0930       | 1230     | 3H                       |
| 2       | 11/12/2015 | JA       | NONE                          | BRIGHT, SUNNY           | GOOD          | F2-3             | SE             | 7 TO 8       | 0930       | 1230     | 3H                       |
| 3       | 11/12/2015 | JA       | NONE                          | BRIGHT, SUNNY           | GOOD          | F2-3             | SE             | 7 TO 8       | 1240       | 1540     | 3H                       |
| 5       | 12/12/2015 | JA       | PERSISTENT SQUALLS            | NONE                    | GOOD          | F2-3             | SW             | 9 TO 10      | 1210       | 1510     | 3H                       |
| 4       | 13/12/2015 | JA       | WET                           | CLOUDY, DULL            | GOOD          | F3-4             | SW             | 9 TO 10      | 1240       | 1540     | 3H                       |
| 5       | 13/12/2015 | JA       | WET                           | CLOUDY, DULL            | GOOD          | F3-4             | SW             | 9 TO 10      | 0930       | 1230     | 3H                       |
| 1       | 22/12/2015 | JA       | OCC. HEAVY DRIZZLE            | OVERCAST                | GOOD          | F3-4             | S-SW           | 7 TO 8       | 0900       | 1100     | 2H                       |
| 2       | 22/12/2015 | JA       | OCC. DRIZZLE                  | OVERCAST, BRIGHT SPELLS | GOOD          | F4-5             | S-SW           | 6 TO 8       | 1100       | 1300     | 2H                       |
| 3       | 22/12/2015 | JA       | DRY                           | BRIGHT, SOME CLOUD      | GOOD          |                  | S-SW           | 6 TO 7       | 1300       | 1500     | 2H                       |
| 4       | 23/12/2015 | JA       | NONE                          | BRIGHT, SUNNY           | GOOD          | F2-3             | SW             | 6 TO 7       | 1310       | 1610     | 3H                       |
| 2       | 14/01/2016 | JA       | FROST ON GROUND               | BRIGHT, OVERCAST        | GOOD          | F3-4             | WNW            | 4            | 1100       | 1300     | 2H                       |
| 3       | 14/01/2016 | JA       | OCC. DRIZZLE                  | BRIGHT, SOME CLOUD      | GOOD          | F4               | WNW            | 4            | 1305       | 1505     | 2H                       |
| 2       | 15/01/2016 | JA       | NONE                          | SUNNY, CLEAR            | GOOD          | F3-4             | SE             | 4 TO 5       | 1215       | 1415     | 2H                       |
| 4       | 15/01/2016 | JA       | NONE                          | SUNNY, CLEAR            | GOOD          | F3               | NW             | 4 TO 5       | 1405       | 1605     | 2H                       |
| 1       | 16/01/2016 | JA       | NONE                          | FOGGY AT FIRST, CLEAR   | GOOD          | F1-2             | SE             | 5            | 1000       | 1200     | 2H                       |
| 5       | 16/01/2016 | JA       | NONE                          | BRIGHT                  | GOOD          | F1-2             | SE             | 5            | 1420       | 1620     | 2H                       |
| 1       | 17/01/2016 | JA       | NONE                          | FOGGY, LIFTING AT TIMES | GOOD          | F1-2             | SE             | 5 TO 6       | 0930       | 1230     | 3H                       |
| 3       | 17/01/2016 | JA       | NONE                          | FOGGY, LIFTING AT TIMES | GOOD          | F1-2             | SE             | 5            | 1240       | 1540     | 3H                       |
| 1       | 26/01/2016 | JA       | CONTINUOUS RAIN               | NONE                    | GOOD          | F3-4             | SW             | 7 TO 8       | 0930       | 1030     | 1H                       |

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| VP Name | Date       | Observer | Rain                  | Cloud          | Visibility    | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|-----------------------|----------------|---------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 3       | 26/01/2016 | JA       | PERSISTENT RAIN       | NONE           | GOOD          | F3-4             | SW             |              | 1040       | 1140     | 1H                       |
| 2       | 27/01/2016 | JA       | OCC. SQUALLS          | NONE           | GOOD          | F3-4             | NW             | 8 TO 9       | 1140       | 1340     | 2H                       |
| 4       | 27/01/2016 | JA       | DRY                   | CLEAR          | GOOD          | F3-4             | NW             | 8 TO 9       | 1400       | 1600     | 2H                       |
| 5       | 27/01/2016 | JA       | OCC. SQUALLS          | NONE           | GOOD          | F3-4             | NW             | 8 TO 9       | 0930       | 1130     | 2H                       |
| 1       | 11/02/2016 | JA       | OCC. LIGHT SHOWERS    | BRIGHT, SUNNY  | GOOD          | F1               | SE             | 6 TO 7       | 0900       | 1200     | 3H                       |
| 3       | 11/02/2016 | JA       |                       | BRIGHT, SUNNY  | GOOD          | F1-2             | SE             | 8 TO 9       | 1230       | 1530     | 3H                       |
| 4       | 12/02/2016 | JA       | OCC. SHOWER           | DULL, OVERCAST | GOOD          | F2               | SW             | 8 TO 9       | 0930       | 1230     | 3H                       |
| 5       | 12/02/2016 | JA       | NONE                  | DULL, OVERCAST | GOOD          | F3               | SW             | 8 TO 9       | 1300       | 1600     | 3H                       |
| 2       | 16/02/2016 | JA       | HEAVY PERSISTENT RAIN | NONE           | POOR AT TIMES | GALE FORCE       | SE             | 10           | 1000       | 1300     | 3H                       |
| 3       | 16/02/2016 | JA       | HEAVY PERSISTENT RAIN | NONE           | GOOD          | GALE FORCE       | SE             | 10           | 1315       | 1615     | 3H                       |
| 1       | 17/02/2016 | JA       | HEAVY RAIN AT TIMES   | NONE           | POOR AT TIMES | F2-3             | SW             | 7 TO 8       | 0900       | 1200     | 3H                       |
| 4       | 17/02/2016 | JA       | NONE                  | SUNNY, CLEAR   | GOOD          | F2-3             | SW             | 7 TO 8       | 1230       | 1630     | 4H                       |
| 5       | 17/02/2016 | JA       | HEAVY SHOWER AT 1300  | BRIGHT, SUNNY  | GOOD          | F1               | SW             | 8 TO 9       | 1230       | 1530     | 3H                       |
| 2       | 18/02/2016 | JA       | NONE                  | BRIGHT, SUNNY  | GOOD          | F1-2             | W              | 6 TO 7       | 0900       | 1200     | 3H                       |

**Table 5: Breeding Season (Summer) 2016 Hen Harrier Sighting Notes**

| VP Name | Date       | Species       | Sex | Time of sighting | Habitat | Duration (s) | Activity | Bird Notes |
|---------|------------|---------------|-----|------------------|---------|--------------|----------|------------|
| 1       | 26/03/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 26/03/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 27/03/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 27/03/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 28/03/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 30/03/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 30/03/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 31/03/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 06/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 08/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 27/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 27/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 28/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 28/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 28/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 29/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 29/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 29/04/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 11/05/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 11/05/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 12/05/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 13/05/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 14/05/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 14/05/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 27/05/2016 | Nil Sightings |     |                  |         |              |          |            |

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| VP Name | Date       | Species       | Sex          | Time of sighting | Habitat                              | Duration (s) | Activity | Bird Notes                                        |
|---------|------------|---------------|--------------|------------------|--------------------------------------|--------------|----------|---------------------------------------------------|
| 5       | 27/05/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 1       | 28/05/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 5       | 29/05/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 1       | 07/06/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 3       | 07/06/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 2       | 08/06/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 1       | 09/06/2016 | Hen Harrier   | Male (Adult) | 12:35            | Semi-improved Agricultural Grassland | 180sec       | Foraging | Observed for a total of 180sec at various heights |
| 5       | 09/06/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 2       | 10/06/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 3       | 10/06/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 4       | 15/06/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 4       | 17/06/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 5       | 17/06/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 1       | 19/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 3       | 19/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 1       | 20/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 3       | 20/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 2       | 21/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 4       | 21/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 2       | 22/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 5       | 22/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 4       | 23/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 5       | 23/07/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 3       | 08/08/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 4       | 08/08/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |
| 2       | 09/08/2016 | Nil Sightings |              |                  |                                      |              |          |                                                   |

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| VP Name | Date       | Species       | Sex | Time of sighting | Habitat | Duration (s) | Activity | Bird Notes |
|---------|------------|---------------|-----|------------------|---------|--------------|----------|------------|
| 2       | 10/08/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 11/08/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 11/08/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 16/08/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 16/08/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 17/08/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 17/08/2016 | Nil Sightings |     |                  |         |              |          |            |

**Table 6: Breeding Season (Summer) 2016 Hen Harrier Survey Results (Time Date and Weather Conditions)**

| VP Name | Date       | Observer | Rain                   | Cloud            | Visibility    | Wind Speed (Bft)           | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|------------------------|------------------|---------------|----------------------------|----------------|--------------|------------|----------|--------------------------|
| 1       | 26/03/2016 | JA       | FREQUENT SHOWERS       | OVERCAST         | GOOD          | F3-4                       | SW             | 10           | 1200       | 1500     | 3H                       |
| 1       | 26/03/2016 | JA       | FREQUENT SHOWERS       | OVERCAST         | GOOD          | F3-4                       | SW             | 10           | 0845       | 1145     | 3H                       |
| 1       | 27/03/2016 | JA       | FREQUENT HAIL SHOWERS  | BRIGHT AT TIMES  | GOOD          | F5                         | SSW            | 10           | 0930       | 1230     | 3H                       |
| 4       | 27/03/2016 | JA       | FREQUENT HAIL SHOWERS  | BRIGHT           | GOOD          | F5-6                       | SSW            | 8 TO 9       | 1300       | 1600     | 3H                       |
| 4       | 28/03/2016 | JA       | FREQUENT SHOWERS       | BRIGHT, SUNNY    | GOOD          | F3-4                       | SW             | 10           | 0900       | 1200     | 3H                       |
| 3       | 30/03/2016 | JA       | OCC. SHOWERS           | SUNNY            | GOOD          | F3-4                       | SW             |              | 1240       | 1540     | 3H                       |
| 5       | 30/03/2016 | JA       | FREQUENT HAIL SHOWERS  | SUNNY            | GOOD          | F3-4                       | SW             | 8 TO 9       | 0930       | 1230     | 3H                       |
| 2       | 31/03/2016 | JA       | NONE                   | BRIGHT, SUNNY    | GOOD          | F2-3                       | SW             | 12           | 1240       | 1540     | 3H                       |
| 4       | 06/04/2016 | JA       | FREQUENT HAIL          | CLEAR AT TIMES   | GOOD          | F4-5 (GALE FORCE AT TIMES) | NW             | 6 TO 8       | 1545       | 1845     | 3H                       |
| 2       | 08/04/2016 | JA       | NONE                   | OVERCAST         | GOOD          | F2-3                       | SW             | 9            | 1230       | 1530     | 3H                       |
| 3       | 27/04/2016 | JA       | OCC. HEAVY HAIL SHOWER | SOME CLOUD       | GOOD          | F3-4                       | NW             | 8            | 0900       | 1200     | 3H                       |
| 5       | 27/04/2016 | JA       | NONE                   | SOME CLOUD       | GOOD          | F3-4                       | NW             | 10           | 1300       | 1600     | 3H                       |
| 1       | 28/04/2016 | JA       | CONTINUOUS SQUALLS     | OVERCAST         | POOR AT TIMES | F4-5                       | WSW            | 8 TO 9       | 1530       | 1830     | 3H                       |
| 3       | 28/04/2016 | JA       | OCC. SQUALLS           | NONE             | GOOD          | F5 OCC -5-6                | WSW            | 7 TO 8       | 1215       | 1515     | 3H                       |
| 5       | 28/04/2016 | JA       | OCC. SQUALLS, DRIZZLE  | OVERCAST         | GOOD          | F4-5                       | SW             | 8 TO 9       | 0900       | 1200     | 3H                       |
| 1       | 29/04/2016 | JA       | OCC. SHOWERS           | OVERCAST         | GOOD          | F4-5                       | NW             | 6 TO 7       | 0900       | 1200     | 3H                       |
| 2       | 29/04/2016 | JA       | OCC. SHOWERS           | OVERCAST         | GOOD          | F3-4                       | NW             |              | 1530       | 1830     | 3H                       |
| 4       | 29/04/2016 | JA       | OCC. SHOWERS           | OVERCAST         | GOOD          | F3-4                       | NW             | 6 TO 7       | 1215       | 1515     | 3H                       |
| 2       | 11/05/2016 | JA       | NONE                   | HAZY             | GOOD          | F1-2                       | N              | 12           | 1500       | 1800     | 3H                       |
| 3       | 11/05/2016 | JA       | NONE                   | HAZY             | GOOD          | F1-2                       | N              | 12           | 1130       | 1430     | 3H                       |
| 1       | 12/05/2016 | JA       | NONE                   | OVERCAST         | FAIR          | F2-3                       | NE             | 10           | 1000       | 1300     | 3H                       |
| 4       | 13/05/2016 | JA       | NONE                   | CLOUDLESS, SUNNY | GOOD          | F1-2                       | NE             | 10           | 0930       | 1230     | 3H                       |
| 2       | 14/05/2016 | JA       | NONE                   | CLOUD            | GOOD          | F2-3                       | NE             | 10           | 1300       | 1600     | 3H                       |
| 3       | 14/05/2016 | JA       | NONE                   | CLOUDY AT TIMES  | GOOD          | F1-2                       | NE             | 9 TO 10      | 0930       | 1230     | 3H                       |
| 4       | 27/05/2016 | JA       | NONE                   | SUNNY            | EXCELLENT     | F2-3                       | NE             | 12           | 1000       | 1300     | 3H                       |

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| VP Name | Date       | Observer | Rain                    | Cloud                  | Visibility | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|-------------------------|------------------------|------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 5       | 27/05/2016 | JA       | NONE                    | OVERCAST               | GOOD       | F2-3             | NE             | 13           | 1330       | 1630     | 3H                       |
| 1       | 28/05/2016 | JA       | NONE                    | CLOUDY WITH HAZE       | GOOD       | F1               | NE             | 12           | 1000       | 1300     | 3H                       |
| 5       | 29/05/2016 | JA       | NONE                    | SUNNY                  | GOOD       | F3-4             | NE             | 17           | 1300       | 1600     | 3H                       |
| 1       | 07/06/2016 | JA       | NONE                    | CLEAR                  | GOOD       | F1-2             | SW             | 17 TO 18     | 1000       | 1300     | 3H                       |
| 3       | 07/06/2016 | JA       | NONE                    | CLEAR, SUNNY           | GOOD       | F1-2             | SW             | 20           | 1330       | 1630     | 3H                       |
| 2       | 08/06/2016 | JA       | NONE                    | FOG THEN SUNSHINE      | GOOD       | F1-2             | SW             | 12           | 1000       | 1300     | 3H                       |
| 1       | 09/06/2016 | JA       | RAIN AT 1300            | OVERCAST THEN BRIGHTER | GOOD       | F1-2             | SW             | 12           | 1000       | 1300     | 3H                       |
| 5       | 09/06/2016 | JA       | SLIGHT DRIZZLE AT 1430  | SUNNY, SOME CLOUD      | GOOD       | F2               | S              | 15 TO 17     | 1315       | 1615     | 3H                       |
| 2       | 10/06/2016 | JA       | RAIN, CLEARING AT TIMES | OVERCAST               | GOOD       | F2               | SE             | 12           | 0900       | 1200     | 3H                       |
| 3       | 10/06/2016 | JA       | RAIN, CLEARING AT TIMES | OVERCAST               | GOOD       | F2               | SE             | 12           | 1215       | 1515     | 3H                       |
| 4       | 15/06/2016 | JA       | OCC. SHOWERS            | BRIGHT                 | GOOD       | F3-4             | NW             | 15           | 1200       | 1500     | 3H                       |
| 4       | 17/06/2016 | JA       | NONE                    | OVERCAST               | GOOD       | F3-4             | N              | 8 TO 10      | 1245       | 1545     | 3H                       |
| 5       | 17/06/2016 | JA       | NONE                    | OVERCAST               | GOOD       | F3-4             | N              | 10           | 0930       | 1230     | 3H                       |
| 1       | 19/07/2016 | JA       | NONE                    | SUNNY, OCC. CLOUD      | GOOD       | F2-3             | E              | 25 TO 26     | 1200       | 1500     | 3H                       |
| 3       | 19/07/2016 | JA       | NONE                    | SUNNY, CLOUDY SPELLS   | GOOD       | F2-3             | E              | 30           | 1530       | 1830     | 3H                       |
| 1       | 20/07/2016 | JA       | NONE                    | SUNNY, SOME CLOUD      | EXCELLENT  | F2-3             | SW             | 15           | 0900       | 1200     | 3H                       |
| 3       | 20/07/2016 | JA       | OCC. LIGHT SHOWER       | CLOUDY SPELLS          | GOOD       | F3-4             | SW             | 15 TO 16     | 1220       | 1520     | 3H                       |
| 2       | 21/07/2016 | JA       | NONE                    | HAZY                   | GOOD       | F3-4             | S              | 12           | 0930       | 1230     | 3H                       |
| 4       | 21/07/2016 | JA       | NONE                    | OVERCAST               | GOOD       | F4               | S              | 12 TO 15     | 1245       | 1545     | 3H                       |
| 2       | 22/07/2016 | JA       | RAIN AT 1400            | OVERCAST, CLOUDY       | GOOD       | F2-3             | NW             | 15           | 1240       | 1540     | 3H                       |
| 5       | 22/07/2016 | JA       | OCC. LIGHT DRIZZLE      | CLOUDY AT TIMES        | GOOD       | F2-3             | NW             | 10           | 0930       | 1230     | 3H                       |
| 4       | 23/07/2016 | JA       | MISTY                   | OVERCAST               | FAIR       | F2               | W              | 14           | 1245       | 1545     | 3H                       |
| 5       | 23/07/2016 | JA       | DRIZZLE                 | OVERCAST, FOG AT TIMES | GOOD       | F1-2             | W              | 12           | 0930       | 1230     | 3H                       |
| 3       | 08/08/2016 | JA       | OCC. SQUALLS            | SUNNY                  | GOOD       | F3-4             | NW             | 17 TO 18     | 1530       | 1830     | 3H                       |
| 4       | 08/08/2016 | JA       | OCC. SQUALLS            | SUNNY                  | GOOD       | F3-4             | NW             | 17 TO 18     | 1200       | 1500     | 3H                       |
| 2       | 09/08/2016 | JA       | NONE                    | OCC. CLOUD             | GOOD       | F4-5             | NW             | 10 TO 12     | 1015       | 1315     | 3H                       |

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| VP Name | Date       | Observer | Rain               | Cloud          | Visibility | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|--------------------|----------------|------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 2       | 10/08/2016 | JA       | OCC. LIGHT SQUALLS | OVERCAST       | GOOD       | F4-5             | NW             | 10           | 0930       | 1230     | 3H                       |
| 3       | 11/08/2016 | JA       | NONE               | OVERCAST       | GOOD       | F2-3             | SW             | 15           | 1300       | 1600     | 3H                       |
| 4       | 11/08/2016 | JA       | OCC. LIGHT DRIZZLE | OVERCAST       | GOOD       | F2-3             | W              | 14 TO 15     | 0930       | 1230     | 3H                       |
| 1       | 16/08/2016 | JA       | NONE               | SUNNY          | GOOD       | F1-2             | SE             | 20 TO 22     | 1600       | 1900     | 3H                       |
| 5       | 16/08/2016 | JA       | NONE               | SUNNY          | GOOD       | F1-2             | SE             | 17 TO 20     | 1230       | 1530     | 3H                       |
| 1       | 17/08/2016 | JA       | OCC. DRIZZLE       | OVERCAST, HAZY | GOOD       | F1-2 OCC. 1-2    | E              | 15 TO 17     | 1000       | 1300     | 3H                       |
| 5       | 17/08/2016 | JA       | NONE               | OVERCAST, HAZY | GOOD       | F1-2 OCC. 3-4    | E              | 17           | 1330       | 1630     | 3H                       |

**Table 7: Non-Breeding Season (Winter) 2016 Hen Harrier Sighting Notes**

| VP Name | Date       | Species       | Sex | Time of sighting | Habitat | Duration (s) | Activity | Bird Notes |
|---------|------------|---------------|-----|------------------|---------|--------------|----------|------------|
| 4       | 21/09/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 21/09/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 22/09/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 23/09/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 23/09/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 27/09/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 27/09/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 28/09/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 28/09/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 29/10/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 29/10/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 30/10/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 30/10/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 31/10/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 31/10/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 01/11/2016 | Nil Sightings |     |                  |         |              |          |            |

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| VP Name | Date       | Species       | Sex | Time of sighting | Habitat | Duration (s) | Activity | Bird Notes |
|---------|------------|---------------|-----|------------------|---------|--------------|----------|------------|
| 1       | 01/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 01/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 02/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 02/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 02/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 24/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 24/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 25/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 25/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 26/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 26/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 27/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 29/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 29/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 30/11/2016 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 01/12/2016 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 01/12/2016 | Nil Sightings |     |                  |         |              |          |            |

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| VP Name | Date       | Species       | Sex            | Time of sighting | Habitat                      | Duration (s) | Activity | Bird Notes                                                        |
|---------|------------|---------------|----------------|------------------|------------------------------|--------------|----------|-------------------------------------------------------------------|
| 5       | 12/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 1       | 12/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 4       | 13/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 5       | 13/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 4       | 14/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 1       | 14/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 4       | 28/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 2       | 29/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 3       | 29/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 4       | 30/12/2016 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 2       | 30/12/2016 | Hen Harrier   | Female (Adult) | 12:49            | Wet Grassland / Conifer Edge | 190 sec      | Foraging | Less than 5 meters aboe ground<br>Hunting down through the valley |
| 2       | 30/12/2016 | Hen Harrier   | Female (Adult) | 12:49            | Acid Grassland               | 50 sec       | Foraging | Less than 5 meters aboe ground<br>Hunting down through the valley |
| 3       | 03/01/2017 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 2       | 25/01/2017 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 3       | 25/01/2017 | Nil Sightings |                |                  |                              |              |          |                                                                   |
| 5       | 26/01/2017 | Nil Sightings |                |                  |                              |              |          |                                                                   |

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| VP Name | Date       | Species       | Sex            | Time of sighting | Habitat                    | Duration (s) | Activity            | Bird Notes                                                                                                                                                                                   |
|---------|------------|---------------|----------------|------------------|----------------------------|--------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5       | 26/01/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 4       | 26/01/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 4       | 27/01/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 1       | 27/01/2017 | Hen Harrier   | Female (Adult) | 10:45            | Grassland and Conifer edge | 360          | Commuting & Hunting | Flew across valley then started to hunt over rough pasture circling field and edge of small conifer planting until lost from view. 6 mins total 2 mins hunting (less that 10 m above ground) |
| 5       | 28/01/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 4       | 29/01/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 1       | 29/01/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 2       | 30/01/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 2       | 31/01/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 3       | 31/01/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 5       | 27/02/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 3       | 27/02/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |
| 5       | 28/02/2017 | Nil Sightings |                |                  |                            |              |                     |                                                                                                                                                                                              |

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| VP Name | Date       | Species       | Sex | Time of sighting | Habitat | Duration (s) | Activity | Bird Notes |
|---------|------------|---------------|-----|------------------|---------|--------------|----------|------------|
| 4       | 28/02/2017 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 01/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 02/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 03/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 03/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 04/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 19/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 19/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 20/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 1       | 20/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 2       | 21/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 30/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 30/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 4       | 31/03/2017 | Nil Sightings |     |                  |         |              |          |            |
| 5       | 01/04/2017 | Nil Sightings |     |                  |         |              |          |            |
| 3       | 02/04/2017 | Nil Sightings |     |                  |         |              |          |            |

**Table 8: Non-Breeding Season (Winter) 2016 Hen Harrier Survey Results**

| VP Name | Date       | Observer | Rain                   | Cloud                        | Visibility   | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|------------------------|------------------------------|--------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 4       | 21/09/2016 | JA       | HEAVY AT TIMES         | OVERCAST                     | FAIR TO POOR | F2-3             | S              | 10           | 1130       | 1430     | 3H                       |
| 5       | 21/09/2016 | JA       | HEAVY AT TIMES         | BRIGHT                       | GOOD         | F2-3             | S              | 12           | 1500       | 1800     | 3H                       |
| 1       | 22/09/2016 | JA       | HEAVY SHOWERS AT TIMES | SOME CLOUD COVER             | GOOD         | F1-2 UP TO F3-4  | SW             | 5 TO 6       | 1000       | 1300     | 3H                       |
| 1       | 23/09/2016 | JA       | NONE                   | OVERCAST BUT BRIGHT          | GOOD         | F4 OCC. F5       | SW             | 6 TO 7       | 0930       | 1230     | 3H                       |
| 5       | 23/09/2016 | JA       | NONE                   | OVERCAST BUT BRIGHT          | EXCELLENT    | F4-5             | SW             | 6 TO 8       | 1245       | 1545     | 3H                       |
| 4       | 27/09/2016 | JA       | NONE                   | BRIGHT, SOME HAZE            | GOOD         | F5-6             | SW             | 14 TO 15     | 1100       | 1400     | 3H                       |
| 2       | 27/09/2016 | JA       | NONE                   | BRIGHT, SOME HAZE            | GOOD         | F5-6             | SW             | 15           | 1430       | 1730     | 3H                       |
| 2       | 28/09/2016 | JA       | NONE                   | OVERCAST, BRIGHT, CLOUD      | GOOD         | F3-4             | SW             | 10 TO 12     | 1000       | 1300     | 3H                       |
| 3       | 28/09/2016 | JA       | NONE                   | OVERCAST, OCC. BRIGHT SPELLS | GOOD         | F4-5 OCC. F5-6   | SW             | 15           | 1330       | 1630     | 3H                       |
| 5       | 29/10/2016 | JA       | NONE                   | SUNNY, SOME CLOUD            | GOOD         | F1-2             | SW             | 8 TO 10      | 1100       | 1300     | 2H                       |
| 2       | 29/10/2016 | JA       | NONE                   | BRIGHT, OVERCAST AT TIMES    | GOOD         | F1-2             | SW             | 10 TO 13     | 1330       | 1630     | 3H                       |
| 4       | 30/10/2016 | JA       | NONE                   | BRIGHT, SUNNY                | GOOD         | F1-2             | S              | 12 TO 15     | 1330       | 1430     | 1H                       |
| 3       | 30/10/2016 | JA       | NONE                   | BRIGHT, SUNNY                | GOOD         | F1-2             | SW             | 8 TO 9       | 0900       | 1100     | 2H                       |
| 3       | 31/10/2016 | JA       | NONE                   | OVERCAST, FOG                | POOR         | <F1              | S              | 10           | 1115       | 1315     | 2H                       |
| 1       | 31/10/2016 | JA       | NONE                   | HAZY, SOME SUN               | GOOD         | <F1              | S              | 8 TO 10      | 0900       | 1100     | 2H                       |
| 2       | 01/11/2016 | JA       | NONE                   | BRIGHT, SOME CLOUD           | GOOD         | F4               | NE             | 6 TO 7       | 1045       | 1245     | 2H                       |
| 1       | 01/11/2016 | JA       | NONE                   | OVERCAST, SOME BRIGHT SPELLS | GOOD         | F3-4             | ENE            | 6 TO 7       | 0830       | 1030     | 2H                       |
| 4       | 01/11/2016 | JA       | NONE                   | BRIGHT, SUNNY, SOME CLOUD    | GOOD         | F3-4             | NE             | 7 TO 8       | 1250       | 1450     | 2H                       |
| 4       | 02/11/2016 | JA       | NONE                   | BRIGHT, SUNNY                | GOOD         | F1               | NE             | 7            | 1215       | 1315     | 1H                       |
| 2       | 02/11/2016 | JA       | NONE                   | BRIGHT, SUNNY, SOME CLOUD    | GOOD         | F1-2             | NE             | 6 TO 7       | 0945       | 1045     | 1H                       |

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| VP Name | Date       | Observer | Rain                   | Cloud                     | Visibility    | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|------------------------|---------------------------|---------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 3       | 02/11/2016 | JA       | NONE                   | BRIGHT, SUNNY, SOME CLOUD | GOOD          | F1-2             | NE             | 6 TO 7       | 0830       | 0930     | 1H                       |
| 1       | 24/11/2016 | JA       | NONE                   | BRIGHT, SUNNY             | GOOD          | F1-2             | NE             | 4 TO 5       | 1000       | 1300     | 3H                       |
| 5       | 24/11/2016 | JA       | NONE                   | BRIGHT, SUNNY             | GOOD          | F1-2             | NE             | 4 TO 5       | 1320       | 1620     | 3H                       |
| 1       | 25/11/2016 | JA       | NONE                   | DENSE FOG AT FIRST        | GOOD          | F1-2             | NE             | 2 TO 3       | 0930       | 1230     | 3H                       |
| 5       | 25/11/2016 | JA       | NONE                   | FOGGY                     | GOOD AT TIMES | F1-2             | NE             | 2 TO 3       | 1245       | 1545     | 3H                       |
| 2       | 26/11/2016 | JA       | NONE                   | SLIGHT FOG AT FIRST       | GOOD          | F2               | NE             | 2 TO 3       | 1350       | 1550     | 2H                       |
| 3       | 26/11/2016 | JA       | NONE                   | DENSE FOG AT FIRST        | GOOD          | F2               | NE             | 1 TO 2       | 0930       | 1130     | 2H                       |
| 4       | 27/11/2016 | JA       | NONE                   | OVERCAST BUT BRIGHT       | GOOD          | F1               | NE             | 4            | 0930       | 1230     | 3H                       |
| 3       | 29/11/2016 | JA       | NONE                   | BRIGHT, SUNNY             | GOOD          | <F1              | SW             | 2            | 1000       | 1300     | 3H                       |
| 2       | 29/11/2016 | JA       | NONE                   | BRIGHT, SUNNY, SOME CLOUD | GOOD          | <F1              | SW             | 3            | 1215       | 1415     | 2H                       |
| 4       | 30/11/2016 | JA       | NONE                   | BRIGHT, CLOUDLESS         | GOOD          | <F1              | SE             | 2            | 0930       | 1230     | 3H                       |
| 3       | 01/12/2016 | JA       | NONE                   | BRIGHT, CLOUDLESS         | GOOD          | <F1              | SE             | -2/-3        | 0930       | 1130     | 2H                       |
| 2       | 01/12/2016 | JA       | NONE                   | BRIGHT, SUNNY             | GOOD          | F1               | SE             | 0            | 1345       | 1545     | 2H                       |
| 5       | 12/12/2016 | JA       | NONE                   | BRIGHT, OVERCAST          | EXCELLENT     | F2               | SW             | 7            | 1245       | 1545     | 3H                       |
| 1       | 12/12/2016 | JA       | NONE                   | OVERCAST, DULL            | GOOD          | F3-4             | SW             | 8            | 0930       | 1230     | 3H                       |
| 4       | 13/12/2016 | JA       | MISTY                  | OVERCAST, DULL            | GOOD          | F2-3             | SE             | 7            | 1215       | 1515     | 3H                       |
| 5       | 13/12/2016 | JA       | NONE                   | BRIGHT, SUNNY             | GOOD          | F2-3             | SE             | 6            | 0900       | 1200     | 3H                       |
| 4       | 14/12/2016 | JA       | HEAVY SQUALLS          | OVERCAST, DULL            | POOR AT TIMES | F1-2             | SE             | 13           | 1215       | 1515     | 3H                       |
| 1       | 14/12/2016 | JA       | FREQUENT HEAVY SQUALLS | OVERCAST, DULL            | POOR AT TIMES | F1-2             | SE             | 12           | 0900       | 1200     | 3H                       |
| 4       | 28/12/2016 | JA       | NONE                   | CLOUD 4/8, BRIGHT         | GOOD          | F1               | SSW            | 8 TO 9       | 1010       | 1310     | 3H                       |
| 2       | 29/12/2016 | JA       | NONE                   | CLOUD 8/8, OVERCAST       | EXCELLENT     | F1               | S              | 8 TO 9       | 1215       | 1515     | 3H                       |
| 3       | 29/12/2016 | JA       | NONE                   | OVERCAST                  | GOOD          | <F1              | SW             | 8            | 0900       | 1200     | 3H                       |
| 4       | 30/12/2016 | JA       | NONE                   | OVERCAST, BRIGHT          | GOOD          | F1               | SW             | 7 TO 10      | 0915       | 1215     | 3H                       |
| 2       | 30/12/2016 | JA       | NONE                   | OVERCAST, CALM            | GOOD          | F1-2             | SW             | 10 TO 11     | 1230       | 1530     | 3H                       |

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| VP Name | Date       | Observer | Rain                              | Cloud                        | Visibility | Wind Speed (Bft)        | Wind Direction  | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|-----------------------------------|------------------------------|------------|-------------------------|-----------------|--------------|------------|----------|--------------------------|
| 3       | 03/01/2017 | JA       | NONE                              | CLOUD 2/8, BRIGHT            | GOOD       | F1                      | WNW             | 6 TO 8       | 1235       | 1535     | 3H                       |
| 2       | 25/01/2017 | JA       | RAIN AT FIRST CLEARING<br>LATER   | BRIGHT                       | GOOD       | F4                      | SW<br>VEERING S | 9            | 0930       | 1230     | 3H                       |
| 3       | 25/01/2017 | JA       | RAIN AT 1500                      | OVERCAST BUT BRIGHT          | GOOD       | F5-6                    | SSW             | 9 TO 10      | 1230       | 1530     | 3H                       |
| 5       | 26/01/2017 | JA       | NONE                              | OVERCAST, HAZY               | GOOD       | G6-7 GALE FORCE<br>OCC. | SE              | 5 TO 6       | 1215       | 1515     | 3H                       |
| 5       | 26/01/2017 | JA       | NONE                              | DULL, OVERCAST               | GOOD       | F5 OCC. F5-6            | SE              | 6            | 0900       | 1200     | 3H                       |
| 4       | 26/01/2017 | JA       | FREQUENT HEAVY SQUALLS            | BRIGHT                       | GOOD       | F3-4                    | NW              | 3 TO 4       | 1000       | 1300     | 3H                       |
| 4       | 27/01/2017 | JA       | NONE                              | BRIGHT BECOMING<br>OVERCAST  | GOOD       | F1-2                    | SW              | 8            | 1245       | 1545     | 3H                       |
| 1       | 27/01/2017 | JA       | HEAVY SHOWER AT FIRST<br>CLEARING | NONE                         | GOOD       | F1-2 THEN F3-4          | SE TO SW        | 7            | 0930       | 1230     | 3H                       |
| 5       | 28/01/2017 | JA       | NONE                              | BRIGHT, SUNNY                | GOOD       | F1-2                    | SW              | 6            | 0930       | 1230     | 3H                       |
| 4       | 29/01/2017 | JA       | MISTY RAIN, OCC. CLEAR<br>SPELLS  | NONE                         | GOOD       | F1-2                    | SE              | 9 TO 10      | 1000       | 1300     | 3H                       |
| 1       | 29/01/2017 | JA       | MISTY RAIN, CLEARING<br>LATER     | NONE                         | GOOD       | F1-2                    | SE              | 9 TO 10      | 1315       | 1615     | 3H                       |
| 2       | 30/01/2017 | JA       | MISTY RAIN AT FIRST               | NONE                         | GOOD       | F3-4 OCC. F4-5          | SE              | 10           | 1000       | 1300     | 3H                       |
| 2       | 31/01/2017 | JA       | NONE                              | FOGGY AT FIRST, SUNNY        | GOOD       | F1-2                    | SE TO SW        | 10           | 1000       | 1300     | 3H                       |
| 3       | 31/01/2017 | JA       | NONE                              | BRIGHT, CLOUDY AT<br>TIMES   | GOOD       | F1-2                    | SW              | 8 TO 9       | 1310       | 1610     | 3H                       |
| 5       | 27/02/2017 | JA       | OCC. SHOWERS                      | BRIGHT, OVERCAST             | GOOD       | F3-4                    | SW              | 3 TO 4       | 1230       | 1530     | 3H                       |
| 3       | 27/02/2017 | JA       | OCC. SHOWERS                      | BRIGHT BECOMING<br>OVERCAST  | GOOD       | F3-4                    | SW              | 3 TO 4       | 0900       | 1200     | 3H                       |
| 5       | 28/02/2017 | JA       | HEAVY SQUALLS                     | CLEAR AT TIMES               | GOOD       | F5-6 OCC. GALE<br>FORCE | NW              | 2 TO 3       | 1230       | 1530     | 3H                       |
| 4       | 28/02/2017 | JA       | FREQUENT HEAVY SQUALLS            | DULL, OVERCAST               | GOOD       | F5-6                    | NW              | 2 TO 3       | 0900       | 1200     | 3H                       |
| 1       | 01/03/2017 | JA       | NONE                              | BRIGHT THEN DULL<br>OVERCAST | GOOD       | F1-2                    | SW              | 3 TO 4       | 0900       | 1200     | 3H                       |

APPENDIX A7: Hen Harrier Surveys at Upperchurch Windfarm 2015 - 2017  
AA 2019, Appropriate Assessment Report

| VP Name | Date       | Observer | Rain                       | Cloud                        | Visibility | Wind Speed (Bft) | Wind Direction | Temp (Deg C) | Start Time | End Time | Duration of survey (hrs) |
|---------|------------|----------|----------------------------|------------------------------|------------|------------------|----------------|--------------|------------|----------|--------------------------|
| 3       | 02/03/2017 | JA       | MISTY RAIN AT TIMES        | BRIGHT THEN DULL OVERCAST    | GOOD       | F3-4             | SE             | 4            | 0930       | 1230     | 3H                       |
| 1       | 03/03/2017 | JA       | SHOWERY WITH CLEAR SPELLS  | DULL, OVERCAST               | GOOD       | F3-4             | SE             | 6 TO 7       | 1245       | 1545     | 3H                       |
| 2       | 03/03/2017 | JA       | SHOWERY WITH CLEAR SPELLS  | NONE                         | GOOD       | F3-4             | SE             | 6 TO 7       | 0930       | 1230     | 3H                       |
| 2       | 04/03/2017 | JA       | DRIVING RAIN AT TIMES      | CLEAR SPELLS                 | GOOD       | F5-6             | WNW            | 7 TO 8       | 1245       | 1545     | 3H                       |
| 1       | 19/03/2017 | JA       | FREQUENT SHOWERS           | BRIGHT SPELLS                | GOOD       | F5-6             | S              | 12 TO 13     | 1030       | 1230     | 2H                       |
| 3       | 19/03/2017 | JA       | SHOWERS                    | BRIGHT AT TIMES              | GOOD       | F5-6             | S              | 13 TO 14     | 1345       | 1645     | 3H                       |
| 2       | 20/03/2017 | JA       | SHOWERY, SOME HAIL         | BRIGHT SPELLS                | GOOD       | F5               | SW             | 8            | 1300       | 1600     | 3H                       |
| 1       | 20/03/2017 | JA       | OCC. LIGHT SHOWER          | BRIGHT, CLOUD AT TIMES       | GOOD       | F4-5 OCC 5-6     | SW             | 9            | 0930       | 1230     | 3H                       |
| 2       | 21/03/2017 | JA       | SLIGHT SNOW FLURRY         | BRIGHTENING UP               | GOOD       | F4               | SSW            | 2            | 0930       | 1230     | 3H                       |
| 5       | 30/03/2017 | JA       | SHOWERY                    | DULL, OVERCAST               | GOOD       | F4-5             | S              | 10           | 1430       | 1730     | 3H                       |
| 4       | 30/03/2017 | JA       | FREQUENT RAIN              | DULL, OVERCAST               | GOOD       | F4-5             | S              | 10           | 1100       | 1400     | 3H                       |
| 4       | 31/03/2017 | JA       | SHOWERY WITH BRIGHT SPELLS | OVERCAST AT TIMES            | GOOD       | F4-5             | SW             | 10           | 0930       | 1230     | 3H                       |
| 5       | 01/04/2017 | JA       | FREQUENT SQUALLS           | BRIGHT                       | GOOD       | F4-5             | SW             | 8            | 0930       | 1230     | 3H                       |
| 3       | 02/04/2017 | JA       | NONE                       | SOME CLOUD, FOG. SUNNY AFTER | GOOD       | F2-3             | SW             | 7 TO 8       | 0930       | 1230     | 3H                       |