

4. DISCUSSION

4.1. Birds of Prey

4.1.1. Buzzard

Buzzard is a common resident species in Ireland with a widespread distribution and increasing population size both in long-term and short-term (Hardey *et al.*, 2013; Gilbert *et al.*, 2021). They nest in trees and sometimes on cliffs, usually with access to open land including farmland, moorland and wetland. The desk study identified no observations of buzzard within the OS grid squares within which the Proposed Development is located. During the breeding season 2024 VP surveys, buzzard was observed on two occasions (**Table 3.3**). During the winter season 2024/2025 VP surveys, buzzard was observed on two occasions (**Table 3.4**). See **Figure 6.1** and **Figure 6.15** for buzzard VP flightlines

Due to the levels of activity of buzzard within the Proposed Development, their Green-listed status, low to medium likelihood to disturbance (Goodship & Furness, 2022) and absence of breeding or significant foraging activity within the survey area, it is not included for further consideration as an IEF.

4.1.2. Hen harrier

Hen harrier is included on Annex I of the EC Birds Directive and the Birds of Conservation Concern Ireland (BoCCI) Amber-listed, with a decreasing short-term population trend in Ireland (Gilbert *et al.*, 2021). Breeding birds confined largely to heather moorland and young forestry plantations where they typically nest on the ground, whilst in winter they are found in more coastal and lowland areas throughout Ireland. The desk study identified seven observations of hen harrier within the OS grid squares within which the Proposed Development is located, most recently on 31/12/2011 (NBDC, 2025). Ten observations of hen harrier were recorded during breeding season 2023 VP surveys (**Table 3.1, Figure 6.5**). Four observations of hen harrier were recorded during the winter season 2023/2024 VP surveys (**Table 3.2**). Four observations of hen harrier were recorded during the breeding season 2024 VP surveys (**Table 3.3**). Three observations of hen harrier were recorded during the winter season 2024/2025 VP surveys (**Table 3.4**).

No hen harriers were recorded during roost surveys in the winter season 2023/2024 (**Annex H**). Four sightings of hen harrier were observed during breeding hen harrier surveys in 2023. One sighting of a female carrying prey over suitable nesting habitat 379.9 m North of the Proposed Development site boundary and three males, two of which were recorded within the Proposed Development site boundary (**Table 3.9; Figure I.1**).

Given this species presence within the Proposed Development and the receiving environment, the proximity to the Important Bird Area (West Clare Uplands), the possible nesting behaviour recorded (female carrying prey) North of the site and that this species is a receptor of potential international importance, under the precautionary principle this species is considered an IEF of **International Importance**.

4.1.3. Kestrel

Whilst a common and widespread raptor species in Ireland, kestrel is included on the BoCCI Red-list due to its widespread decline. Although the species' short-term population trend is stable and its short-term breeding distribution trend is increasing, its range is decreasing in the long-term. Kestrels typically forage over farmland, wetlands, moorland and roadside verges, and nest in trees, buildings and in cliff faces. During winter they are largely resident within the breeding territory, although some move down to lowland areas. The desk study identified 25 observations of kestrel within the OS grid squares within which the Proposed Development is located, most recently on 06/01/2018 (NBDC, 2025). During VP surveys, kestrel was observed on 103 occasions during the breeding seasons of 2023 and 2024 (Table 3.1 and Table 3.3), and on 78 occasions during the winter seasons of 2023/2024 and 2024/2025 (Table 3.2 and Table 3.4).

No nests were confirmed within the receiving environment but over 23 kestrels were recorded in 2023 showing group hunting behaviour. This suggests a nest was present with successful fledgling individuals. Only one kestrel was recorded in 2024, the sighting was observed 333.3 m South of T01.

High quality nesting sites and kestrel activity were identified within the Proposed Development site boundary and surrounding area. Local populations of kestrel are therefore evaluated as **Local (High value) Importance** and the species is included for further consideration as a IEF.

4.1.4. Merlin

Merlin was not recorded during targeted breeding merlin surveys. It is included on Annex I of the EC Birds Directive and the BoCCI Amber-list for its breeding population, with a moderate decrease in its breeding population in the short- and long-term in Ireland (Gilbert *et al.*, 2021). Four individuals were recorded during the winter 2023/2024 during VP surveys (Table 3.2). Although no active nest was observed, this species is difficult to locate its nesting territory due to its presence for secluded areas protected from access by ground predators. Based on the plucking post evidence found on site (Annex D; Table D.2; Figure 3.1), this receptor is likely present as part of a wintering territory, merlin cannot be ruled out as present within the receiving environment.

As such, based on the activity recorded within the receiving environment, its conservation status and the suitability of the habitat, this species is considered an IEF of **Local (High value) Importance** under the precautionary principle.

4.1.5. Peregrine

Peregrine is included on Annex I of the EC Birds Directive and the BoCCI Green-list, with an increasing population in the short- and long-term in Ireland. Peregrines breed on coastal and inland cliffs and can also be found in cities, and hunt over a range of habitats including farmland and wetland. Wintering habitat shows some movement away from its breeding areas. The desk study identified ten observations of peregrine within the OS grid squares within which the Proposed Development is located, the most recently on 04/12/2014 (NBDC, 2025). Peregrine was observed once during the winter of 2023/2024 (Table 3.2) and an incidental sighting was recorded during hen harrier breeding survey in 2023 (Annex H; Table D.2).

Peregrine was not recorded during breeding surveys in 2024.

High quality nesting sites are present within the wider receiving environment but with negligible activity being recorded within the vicinity of the Proposed Development. Local populations of peregrine are therefore evaluated as **Local (High value) Importance** and is included for further consideration as an IEF under the precautionary principle.

4.1.6. Other Raptors

Sparrowhawk was recorded during the breeding seasons 2023 and 2024 and the winter seasons 2023/2024 and 2024/2025 (**Table 3.1 – Table 3.4**). Although green-listed and may be sensitive to turbine collision, due to the scarcity of this species within the ecological baseline they are not considered an IEF.

Barn owl was not recorded to any extent and is not considered as an IEF of the Proposed Development. Suitable roosting habitat was recorded as outlined in **Section 3.3.7.4**; two ‘high’ suitability and one ‘intermediate’ suitability sites were recorded 387.5 m and 396.5 m from the Proposed Development site boundary respectively. However, dusk activity surveys undertaken for the breeding seasons 2023 and 2024 confirmed that the sites were not actively used for roosting (**Annex J; Table J.4**).

4.2. Waders and Waterfowl

A number of wader species listed under Annex I of the EU Birds Directive and the Irish Birds of conservation concern were recorded within the receiving environment of the Proposed Development. These species are listed below addressing the reasoning for scoping in or out of these receptors as IEFs following the criteria set in **Section 1.6**. I-WeBS results for this bird group are provided in **Section 7** and **Annex C** of this report.

A number of wader species are considered as IEFs based on their numbers within the receiving environment.

4.2.1. Brent goose

Brent goose was recorded during I-WeBS efforts (**Table 3.7** and **Table 3.8; Section 7; Figure 7.4 & Figure 7.9**). It is an Amber list (BoCCI) species and is considered to be an IEF of **Local (High Value) Importance** requiring for impact assessment due to its conservation status and the lake located within the footprint of the Proposed Development.

4.2.2. Common scoter

Common scoter was recorded during the winter season 2024/2025 I-WeBS efforts (**Table 3.8; Section 7; Figure 7.9**). It was also recorded within the 10 km grid squares within which the Proposed Development is located (NBDC, 2025). It is an Amber-list (BoCCI) species and is not considered to be an IEF as no sightings were recorded within the Proposed Development site boundary.

4.2.3. Cormorant

Cormorant was recorded during I-WeBS efforts in the winter seasons 2023/2024 and 2024/2025 (**Table 3.7** and **Table 3.8; Section 7; Figure 7.5 & Figure 7.10**). It is considered to be an IEF of **County Importance** requiring for impact assessment due to the extent of suitable habitat (Lough Keagh) within the receiving environment of the Proposed Development, it is also listed as an SCI of the Mid-Clare

Coast SPA (004182) which is located within the ZOI and the presence of suitable foraging habitats within the site (**Appendix A08-01**).

4.2.4. Curlew

Curlew was recorded during I-WeBS efforts in the winter seasons 2023/2024 and 2024/2025 (**Table 3.7 and Table 3.8; Section 7; Figure 7.2 & Figure 7.7**). It is a Red-list (BoCCI) species and is considered to be an IEF of **Local (High Value) Importance** requiring for impact assessment due to its conservation status and the suitable lake habitat located within the footprint of the Proposed Development.

4.2.5. Gadwall

Gadwall was recorded during I-WeBS efforts in the winter seasons 2023/2024 (**Table 7.3; Section 7; Figure 7.3 & Figure 7.8**). It is an Amber-list (BoCCI) species and is considered to be an IEF of **Local (High Value) Importance** requiring for impact assessment due to its conservation status and the suitable lake habitat located within the footprint of the Proposed Development.

4.2.6. Gannet

Gannet was recorded once during I-WeBS efforts in the winter season 2023/2024 (**Table 3.7; Section 7; Figure 7.5**). The closest sighting was recorded 3.48 km Northeast from the Proposed Development site boundary. It is an Amber-list (BoCCI) species and is not considered to be an IEF requiring for impact assessment due to its absence within the Proposed Development site boundary.

4.2.7. Golden plover

Golden plover was observed during VP surveys in both winter seasons and the breeding season 2024 (**Table 3.2 – Table 3.4; Section 6: Figure 6.3 & Figure 6.16**) and the winter season 2023/2024 I-WeBS efforts (**Table 3.7; Section 7; Figure 7.2**). This species is both an Annex I species and a Red-list species (Gilbert *et al.*, 2021). As such, golden plover is considered to be an IEF of **Local (High Value) Importance** requiring impact assessment due to its conservation status and its presence within the receiving environment of the Proposed Development.

4.2.8. Great crested grebe

Great crested grebe was recorded twice during I-WeBS efforts in the winter season 2023/2024 (**Table 3.7; Section 7; Figure 7.5**). It is an Amber-list (BoCCI) species but is not considered to be an IEF requiring for impact assessment despite its conservation status and due to its negligible presence within the receiving environment and absence from the Proposed Development.

4.2.9. Great northern diver

Great northern diver was recorded during I-WeBS efforts (**Table 3.7 and Table 3.8; Section 7; Figure 7.5 & Figure 7.10**). It is an Amber-list (BoCCI) species but is not considered to be an IEF requiring for impact assessment, despite its conservation status, due to its negligible presence within the receiving environment and absence from the Proposed Development.

4.2.10. Greenshank

Greenshank was recorded three times during I-WeBS efforts for both winter seasons (**Table 3.7** and **Table 3.8; Section 7; Figure 7.2 & Figure 7.7**). It is green-list (BoCCI) species but is an SCI of the Mid-Clare Coast SPA. As such, it is considered to be an IEF of **County Importance** requiring impact assessment due to its conservation status listened under an SPA within the wider receiving environment despite its negligible presence within the receiving environment of the Proposed Development.

4.2.11. Grey heron

Grey heron was recorded during VP surveys during the winter seasons 2023/2024 and 2024/2025 (**Table 3.2** and **Table 3.4; Section 6; Figure 6.17**) and I-WeBS efforts for both winter seasons (**Table 3.7** and **Table 3.8; Section 7; Figure 7.5 & Figure 7.10**). Grey heron is a species of Least Concern (IUCN) worldwide and is a Green-list species (Gilbert *et al.*, 2021). Despite the availability of suitable habitat within the receiving environment (Marion, 1989), is not considered to be an IEF requiring impact assessment due to its Green-listed status and absence from the Proposed Development.

4.2.12. Little egret

Little egret was recorded during VP surveys in the winter season 2023/2024 (**Table 3.2; Section 6; Figure 6.22**) and I-WeBS survey efforts in the winter season 2024/2025 (**Table 3.8; Section 7; Figure 7.10**) and is not considered to be an IEF requiring impact assessment due to its Green-listed status (Gilbert *et al.*, 2021) and absence within the Proposed Development.

4.2.13. Little grebe

Little grebe was also recorded during I-WeBS efforts for both winter seasons (**Table 3.7** and **Table 3.8; Section 7; Figure 7.5 & Figure 7.10**). It is considered to be an IEF of **Local (High Value) Importance** requiring for impact assessment due to its conservation status and the presence of a lake located within the footprint of the Proposed Development.

4.2.14. Mallard

Mallard was recorded during VP surveys for all four seasons (**Table 3.1 – Table 3.4; Section 6; Figure 6.9 & Figure 6.23**). Mallard was also recorded during winter season 2023/2024 and 2024/2025 transect surveys (**Table 3.6**) and I-WeBS efforts (**Table 3.7** and **Table 3.8; Section 7; Figure 7.3 & Figure 7.8**). It is an Amber-list (BoCCI) species (Gilbert *et al.*, 2021) and is considered to be an IEF of **Local (High Value) Importance** requiring for impact assessment due to its conservation status and presence within the lake located within the footprint of the Proposed Development.

4.2.15. Moorhen

Moorhen was recorded four times during I-WeBS efforts for both winter seasons (**Table 3.7** and **Table 3.8; Section 7; Figure 7.5 & Figure 7.10**). It is a Green-list species (BoCCI) species but is not considered to be an IEF requiring for impact assessment due to its conservation status and its negligible presence within the receiving environment and absence within the Proposed Development.

4.2.16. Oystercatcher

Oystercatcher was recorded during I-WeBS efforts for both winter seasons (**Table 3.7** and **Table 3.8; Section 7; Figure 7.2 & Figure 7.7**). This species was one of the most abundant species recorded during I-WeBS visits. It is a Red-list (BoCCI) species (Gilbert *et al.*, 2021) and is considered to be an IEF of **Local (High Value) Importance** requiring impact assessment due to its conservation status and suitable lake habitat located within the footprint of the Proposed Development.

4.2.17. Redshank

Redshank was recorded during I-WeBS efforts for both winter seasons (**Table 3.7** and **Table 3.8; Section 7; Figure 7.2 & Figure 7.7**). It is a Red-list species (BoCCI) species (Gilbert *et al.*, 2021) and is considered to be an IEF of **Local (High Value) Importance** requiring impact assessment due its conservation status and its presence within the receiving environment of the Proposed Development.

4.2.18. Ringed plover

Ringed plover was recorded during I-WeBS efforts both winter seasons (**Table 3.7** and **Table 3.8; Section 7; Figure 7.2 & Figure 7.6**). It is an Amber-list (BoCCI) species and is also an SCI of the Mid-Clare Coast SPA and is considered to be an IEF of **County Importance** requiring impact assessment due to its conservation status and its presence within the receiving environment of the Proposed Development.

4.2.19. Sanderling

Sanderling was recorded during I-WeBS efforts (**Table 3.7** and **Table 3.8; Section 7; Figure 7.2 & Figure 7.7**). It is a Green-list (BoCCI) species (Gilbert *et al.*, 2021) and is also an SCI of the Mid-Clare Coast SPA. However, it is not considered to be an IEF of requiring impact assessment despite its conservation status due to its presence within the ecological baseline limited to the coastal habitats more than 4km West of the Proposed Development (**Figure 7.7**).

4.2.20. Shag

Shag was recorded during I-WeBS efforts for both winter seasons (**Table 3.7** and **Table 3.8; Section 7; Figure 7.5 & Figure 7.10**) and is not considered to be an IEF requiring impact assessment due to a lack of suitable habitat for this species within the receiving environment and the Proposed Development.

4.2.21. Snipe

Snipe is a Red-list (BoCCI) species (Gilbert *et al.*, 2021) and has experienced a decrease in population numbers and breeding ranges in Ireland. It is an Annex II species under the EU Birds Directive. The species was recorded during VP surveys during the breeding season 2023, winter seasons 2023/2024 and 2024/2025 (**Table 3.1, Table 3.2 and Table 3.4; Section 6; Figure 6.11 & Figure 6.27**) and CBS efforts during the winter season 2023/2024 (**Table 3.6**). Due to its BoCCI status, presence on site and the extent of suitable habitat available to it within the Proposed Development area (Andrew *et al.*, 2007), it is considered an IEF of **Local (High Value) Importance** requiring impact assessment.

4.2.22. Teal

Teal was recorded during VP surveys in the winter season 2023/2024 and 2024/2025 (**Table 3.2** and **Table 3.4; Section 6; Figure 6.29**). Teal was also recorded during the winter season 2023/2024 CBS efforts (**Table 3.6**) and I-WeBS efforts for both winter seasons, sightings were recorded within the lake located within the footprint of the Proposed Development (**Table 3.7** and **Table 3.8; Section 7; Figure 7.3 & Figure 7.8**). It was also recorded within the 10 km grid squares within which the Proposed Development is located (NBDC, 2025). It is an Amber-list (BoCCI) species and is considered to be an IEF of **Local (High Value) Importance** requiring impact assessment (wintering only).

4.2.23. Tufted duck

Tufted duck was recorded during I-WeBS efforts for both winter seasons (**Table 3.7** and **Table 3.8; Section 7; Figure 7.3 & Figure 7.8**), the closest sighting in relation to the Proposed Development was recorded within Aillbrack Lough, 1 km North of the Proposed Development site boundary. It is an Amber-list (BoCCI) species (Gilbert *et al.*, 2021) and, due to its presence within the Zol of the Proposed Development, it is considered to be an IEF of **Local (High Value) Importance** requiring impact assessment (wintering only).

4.2.24. Turnstone

Turnstone was recorded during VP surveys in the winter season 2023/2024 (**Table 3.2**) and I-WeBS efforts (**Table 3.7** and **Table 3.8; Section 7; Figure 7.2 & Figure 7.7**). It is an Amber-list (BoCCI) species (Gilbert *et al.*, 2021) and an SCI of the Mid-Clare Coast SPA. However, it is not considered to be an IEF of requiring impact assessment despite its conservation status due to its presence within the ecological baseline limited to the coastal habitats more than 4km West of the Proposed Development (**Figure 7.7**).

4.2.25. Whimbrel

A large flock of whimbrels were recorded during VP surveys in the breeding season 2023 (**Table 3.1**). This sighting occurred offsite but within the 5 km buffer zone (**Figure 6.13**). It is a Green-listed species (Gilbert *et al.*, 2021) and is only observed during the winter and no records of breeding whimbrel have been documented in Ireland. Due to the scarcity of records, it is not considered to be an IEF and does not require consideration in the impact assessment.

4.2.26. Whooper swan

Whooper swan was recorded during I-WeBS efforts in the winter season 2024/2025, the closest sighting in relation to the Proposed Development was recorded within Aillbrack Lough, 1 km north of the Proposed Development site boundary (**Table 3.8; Section 7; Figure 7.9**). It is Amber-list in Ireland (Gilbert *et al.*, 2021) and is considered to be an IEF of **Local (High Value) Importance** requiring detailed consideration in the impact assessment.

4.2.27. Wigeon

Wigeon was recorded during I-WeBS efforts in the winter season 2023/2024 (**Table 3.7; Section 7; Figure 7.3**). It is an Amber-list (BoCCI) species (Gilbert *et al.*, 2021) and, having been recorded within

the lake habitat located within the Proposed Development site boundary, is considered to be an IEF of **Local (High Value) Importance** requiring impact assessment.

4.2.28. Woodcock

Woodcock was not recorded in during the 2023 and 2024 breeding seasons (**Annex E; Table E.1 and Table E.2**). The combination of wet grassland forestry plantation within and surrounding the Proposed Development provides ample suitable habitat for this species. Woodcock is a Red-list bird of conservation concern due to its long- term breeding decline in breeding population (Gilbert *et al.*, 2021). Despite the absence of breeding season records in the 2023 season and 2024, this species was recorded in the winter VP efforts (**Figure 6.31**) which suggests that there is a presence of woodcock on site. Due to its conservation status, extensive suitable habitat and presence within the receiving environment of the Proposed Development, this species is considered to be an IEF of **Local (High Value) Importance** and is scoped in for impact assessment in the main EIAR under the precautionary principle.

4.3. Gulls

4.3.1. Black-headed gull

Black-headed gull was recorded once during VPs surveys during the winter season 2023/2024 (**Table 3.2**) (**Figure 6.14**). A peak count of 571 individuals were recorded during the I-WeBS efforts (**Table 3.7** and **Table 3.8**; **Section 7; Figure 7.1 & Figure 7.6**).

Black-headed gull is an Amber-list (breeding and wintering) species (Gilbert *et al.*, 2021). As such, due to its conservation status and presence within the receiving environment (1 km North of the Proposed Development site boundary), black-headed gull is considered as a IEF of **Local (High Value) Importance** requiring detailed consideration in the impact assessment.

4.3.2. Common gull

Common gull was recorded once during VPs surveys in the breeding season 2024 (**Table 3.3**) (breeding season; **Figure 6.2**). A peak count of 387 individuals were recorded during the I-WeBS efforts in the winter season 2024/2025 (**Table 3.8; Section 7;Figure 7.1 & Figure 7.6**).

Common gull is an Amber-list (breeding and wintering) species (Gilbert *et al.*, 2021). As such, due to its conservation status, high counts and presence within the receiving environment, common gull is considered as a IEF of **Local (High Value) Importance** requiring detailed consideration in the impact assessment.

4.3.3. Great black-backed gull

Great black-backed gull was recorded five times during VPs surveys in the breeding seasons 2023 and 2024 (**Table 3.1** and **Table 3.3**) (**Figure 6.4**). The species was recorded during CBS surveys in the winter season 2023/2024 (**Table 3.6**). A peak count of 31 individuals were recorded during the I-WeBS efforts (**Table 3.7** and **Table 3.8; Section 7;Figure 7.1 & Figure 7.6**).

Great black-backed gull is a Green-list species (Gilbert *et al.*, 2021). As such, due to its conservation status and its presence within the wider receiving environment and the suitable habitat present, great black-backed gull is considered as a IEF of **Local (High Value) Importance** requiring detailed consideration in the impact assessment.

4.3.4. Herring gull

Herring gull was recorded during VPs surveys during both breeding and winter seasons (**Table 3.1 – Table 3.4; Figure 6.6; Figure 6.19**). A peak count of 286 individuals were recorded during the I-WeBS efforts (**Table 3.7** and **Table 3.8; Section 7;Figure 7.1 & Figure 7.6**). One individual was recorded during CBS efforts.

Herring gull is an Amber-list (breeding and wintering) species. As such, due to its conservation status, high count and presence within the receiving environment, herring gull is considered as a IEF of **Local (High Value) Importance** requiring detailed consideration in the impact assessment.

4.3.5. Lesser black-backed gull

Lesser black-backed gull was recorded during VPs surveys for both breeding and winter seasons (**Table 3.1 – Table 3.4; Figure 6.8; Figure 6.21**). The species was also recorded during CBS efforts in the breeding season 2024 (**Table 3.5**). A peak count of 85 individuals were recorded during the I-WeBS efforts (**Section 7; Figure 7.1 & Figure 7.6**). Lesser black-backed gull is an Amber-list (breeding and wintering) species. As such, due to its conservation status and presence within the receiving environment, and its sensitivity to wind farm developments (Thaxter *et al.*, 2019), the lesser black-backed gull is considered as a IEF of **Local (High Value) Importance** requiring detailed consideration in the impact assessment.

4.4. Passerines

Blackbird (*Turdus merula*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). A total of 17 individuals were recorded during the breeding CBS efforts (**Table 3.5**) and 13 individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Blackcap (*Sylvia atricapilla*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). Two individuals were recorded during the breeding CBS efforts for the breeding season 2024 (**Table 3.7**) and no individuals were recorded during the winter CBS efforts. Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Blue tit (*Cyanistes caeruleus*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). Three individuals were recorded during the breeding CBS efforts (**Table 3.5**) and eight individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Chaffinch (*Fringilla coelebs*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). A total of 11 individuals were recorded during the breeding CBS efforts (**Table 3.5**) and 17 individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Chiffchaff (*Phylloscopus collybita*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). Two individuals were recorded during the breeding CBS efforts (**Table 3.5**) and no individuals were recorded during the winter CBS efforts. Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Coal tit (*Periparus ater*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). Five individuals were recorded during the breeding CBS efforts (**Table 3.5**) and seven individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Dunnock (*Prunella modularis*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). No individuals were recorded during the breeding CBS efforts and four individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Fieldfare (*Turdus pilaris*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). No individuals were recorded during the breeding CBS efforts and 39 individuals during the winter CBS efforts (**Table 3.6**).

Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Goldcrest is an Amber-list (BoCCI) species (Gilbert *et al.*, 2021). Eight individuals were recorded during the breeding CBS efforts (**Table 3.5**) and 16 individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Great tit (*Parus major*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). Three individuals were recorded during the breeding CBS efforts (**Table 3.5**) and seven individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Grey wagtail was recorded once during I-WeBS efforts in the winter season 2023/2024 (**Table 3.7**). It is a Red-list (BoCCI) species (Gilbert *et al.*, 2021) and as such is considered to be of **Local (Low value) Importance** based on the negligible presence within the receiving environment of the Proposed Development, and is it not considered an IEF.

Meadow pipit is a Red-list (BoCCI) species (Gilbert *et al.*, 2021). A total of 35 individuals were recorded during the breeding CBS efforts (**Table 3.5**) and 32 individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

Mistle thrush (*Turdus viscivorus*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). No individuals were recorded during the breeding CBS efforts and two individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, this species is not considered an IEF.

Reed bunting (*Emberiza schoeniclus*) a Green-list (BoCCI) species (Gilbert *et al.*, 2021). No individuals were recorded during the breeding CBS efforts and 13 individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

Robin (*Erithacus rubecula*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). A total of 12 individuals were recorded during the breeding CBS efforts (**Table 3.5**) and 27 individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

Sedge warbler (*Acrocephalus schoenobaenus*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). Three individuals were recorded during the breeding CBS efforts (**Table 3.5**) and no individuals were recorded during the winter CBS efforts. Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

Skylark is an Amber-list (BoCCI) species (Gilbert *et al.*, 2021). A total of 17 individuals were recorded during the breeding CBS efforts (**Table 3.5**) and eight individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

Starling is an Amber-list (BoCCI) species (Gilbert *et al.*, 2021). No individuals were recorded during the breeding CBS efforts and one individual was recorded during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

Stonechat (*Saxicola rubicola*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). Five individuals were recorded during the breeding CBS efforts (**Table 3.5**) and six individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

Willow warbler is an Amber-list (BoCCI) species (Gilbert *et al.*, 2021). A total of 12 individuals were recorded during the breeding CBS efforts (**Table 3.5**) and no individuals were recorded during the winter CBS efforts. Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

Woodpigeon (*Columba palumbus*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). Ten individuals were recorded during the breeding CBS efforts (**Table 3.5**) and no individuals were recorded during the winter CBS efforts. Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

Wren (*Troglodytes troglodytes*) is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). A total of 36 individuals were recorded during the breeding CBS efforts (**Table 3.5**) and 39 individuals during the winter CBS efforts (**Table 3.6**). Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

4.5. Corvids

Raven was recorded during VP surveys. It is a Green-list (BoCCI) species (Gilbert *et al.*, 2021). Due to this species' conservation status and steady population across Ireland, it is not considered an IEF.

4.6. Summary of ecological features

Considering the desk study and field survey results described above, and the scope for impacts from the Proposed Development, the following IEFs have been identified for the purposes of this assessment (Table 4.1).

Table 4.1: Summary of species importance and identification of Important Ecological Features.

Species	Legislation	Importance	Scoped in/Out as Important Ecological Features
Raptors			
Buzzard	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Hen harrier	EU Birds Directive Annex I; Amber-list	International Importance	In
Merlin	EU Birds Directive Annex I; Amber-list	Local (High Value) Importance	In
Kestrel	Protected Wildlife Act; Red-listed	Local (High Value) Importance	In
Peregrine	EU Birds Directive Annex I; Green-listed	Local (High Value) Importance	In
Sparrowhawk	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Barn owl	Wildlife Act 2023; Red-listed	Local (Low Value) Importance	Out
Wader			
Curlew	Wildlife Act 2023; Red-listed	Local (High Value) Importance	In
Golden plover	EU Birds Directive Annex I; Red-listed	Local (High Value) Importance	In
Greenshank	Wildlife Act 2023; Green-listed	Local (High Value) Importance	In
Oystercatcher	Wildlife Act 2023; Red-listed	Local (High Value) Importance	In
Redshank	EU Birds Directive Annex I; Green-listed	Local (High Value) Importance	In
Ringed plover	Wildlife Act 2023; Amber-list	County Importance	In
Sanderling	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Snipe	Wildlife Act 2023; Red-listed	Local (High Value) Importance	In

Species	Legislation	Importance	Scoped in/Out as Important Ecological Features
Turnstone	Wildlife Act 2023; Amber-list	Local (Low Value) Importance	Out
Whimbrel	Wildlife Act 2023; Amber-list	Local (Low Value) Importance	Out
Woodcock	Wildlife Act 2023; Red-list	Local (High Value) Importance	In
Gull			
Black-headed gull	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Common gull	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Great black-backed gull	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Herring gull	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Lesser black-backed gull	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Wetland and Waterbird			
Brent goose	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Common scoter	Wildlife Act 2023; Red-list	Local (Low Value) Importance	Out
Cormorant	Wildlife Act 2023; Amber-list	County Importance	In
Gadwall	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Gannet	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Great crested grebe	Wildlife Act 2023; Amber-list	Local (Low Value) Importance	Out
Great northern diver	EU Birds Directive Annex I; Amber-list	Local (Low Value) Importance	Out
Grey heron	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Little egret	EU Birds Directive Annex I; Amber-list	Local (Low Value) Importance	Out

Species	Legislation	Importance	Scoped in/Out as Important Ecological Features
Little grebe	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Mallard	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Moorhen	Wildlife Act 2023; Green-list	Local (Low Value) Importance	Out
Shag	Wildlife Act 2023; Amber-list	Local (Low Value) Importance	Out
Teal	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Tufted duck	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Whooper swan	EU Birds Directive Annex I; Amber-list	Local (High Value) Importance	In
Wigeon	Wildlife Act 2023; Amber-list	Local (High Value) Importance	In
Passerines			
Blackbird	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Blackcap	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Blue Tit	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Chaffinch	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Chiffchaff	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Coal tit	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Dunnock	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Fieldfare	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Goldcrest	Wildlife Act 2023; Amber-list	Local (High Value) Importance	Out
Great tit	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out

Species	Legislation	Importance	Scoped in/Out as Important Ecological Features
Grey wagtail	Wildlife Act 2023; Red-listed	Local (Low Value) Importance	Out
Meadow pipit	Wildlife Act 2023; Red-listed	Local (Low Value) Importance	Out
Mistle thrush	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Reed bunting	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Robin	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Sedge warbler	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Skylark	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Starling	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Stonechat	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Willow warbler	Wildlife Act 2023; Amber-list	Local (Low Value) Importance	Out
Woodpigeon	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Wren	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out
Corvids			
Raven	Wildlife Act 2023; Green-listed	Local (Low Value) Importance	Out

Based on the contemporary survey and desk study data, the above scoping of Important Ecological Features, as informed by the most recent scientific data, is considered to reflect the current baseline for birds, which should be assessed with regard to the potential lifetime impacts of the Proposed Development.

The 'future baseline' (i.e. the expected baseline in the absence of the Proposed Development) describes the ornithological receptors as they would be in the first year of operation in the 'Do Nothing' scenario. These features are influenced by future developments and factors that have a high degree of uncertainty, such as future land management and climate change.

Where information exists on planned future developments, this will be taken into consideration during the assessment.

Long-term climatic predictions suggest that warmer, wetter, winters and drier summers will become more frequent, with more extreme weather events likely. This, combined with changes in land management, increased urbanisation, and increased biotic pressures may lead to an alteration in the national, regional, and local population and distribution of some bird species. However, such changes are unlikely to be material during the intervening period between the completion of the field surveys and the first year of operation of the Proposed Development.

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INIS Environmental Consultants Ltd.

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Appendix A08-03: Ornithology Baseline

Waterford Biodiversity Action Plan 2008 – 2013 (2008) Conserving our Natural Heritage County Waterford Local Biodiversity Action Plan. Waterford county Council

Waterford City and County Development Plan 2022 – 2028 (2022) Waterford City and County Development Plan 2022 – 2028. Waterford County Council

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6. VANTAGE POINT FIGURES

6.1. Breeding Season Flightlines

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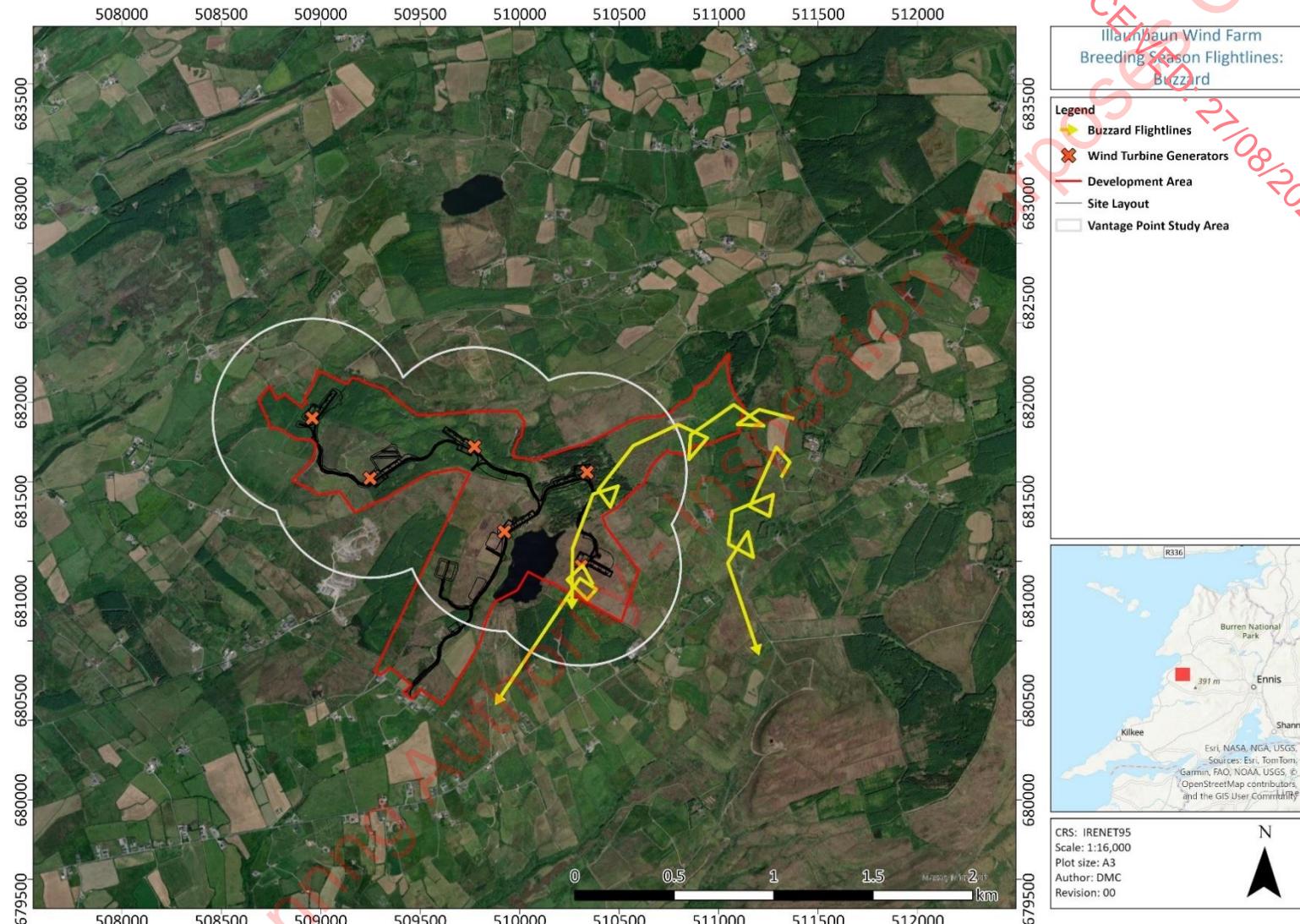


Figure 6.1: Illaunbaun Wind Farm breeding season buzzard flightlines.

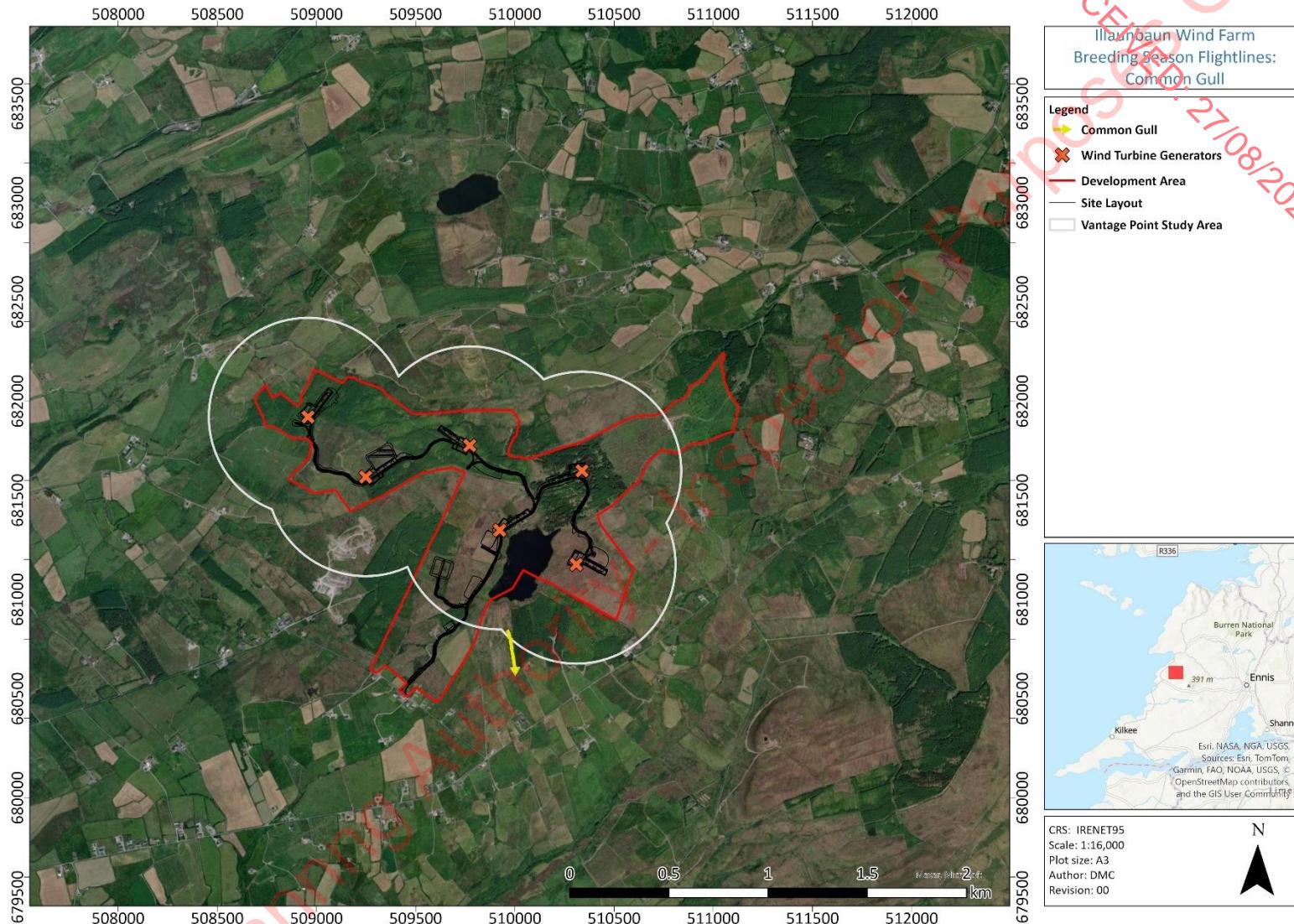


Figure 6.2: Illaunbaun Wind Farm breeding season common gull flightlines.

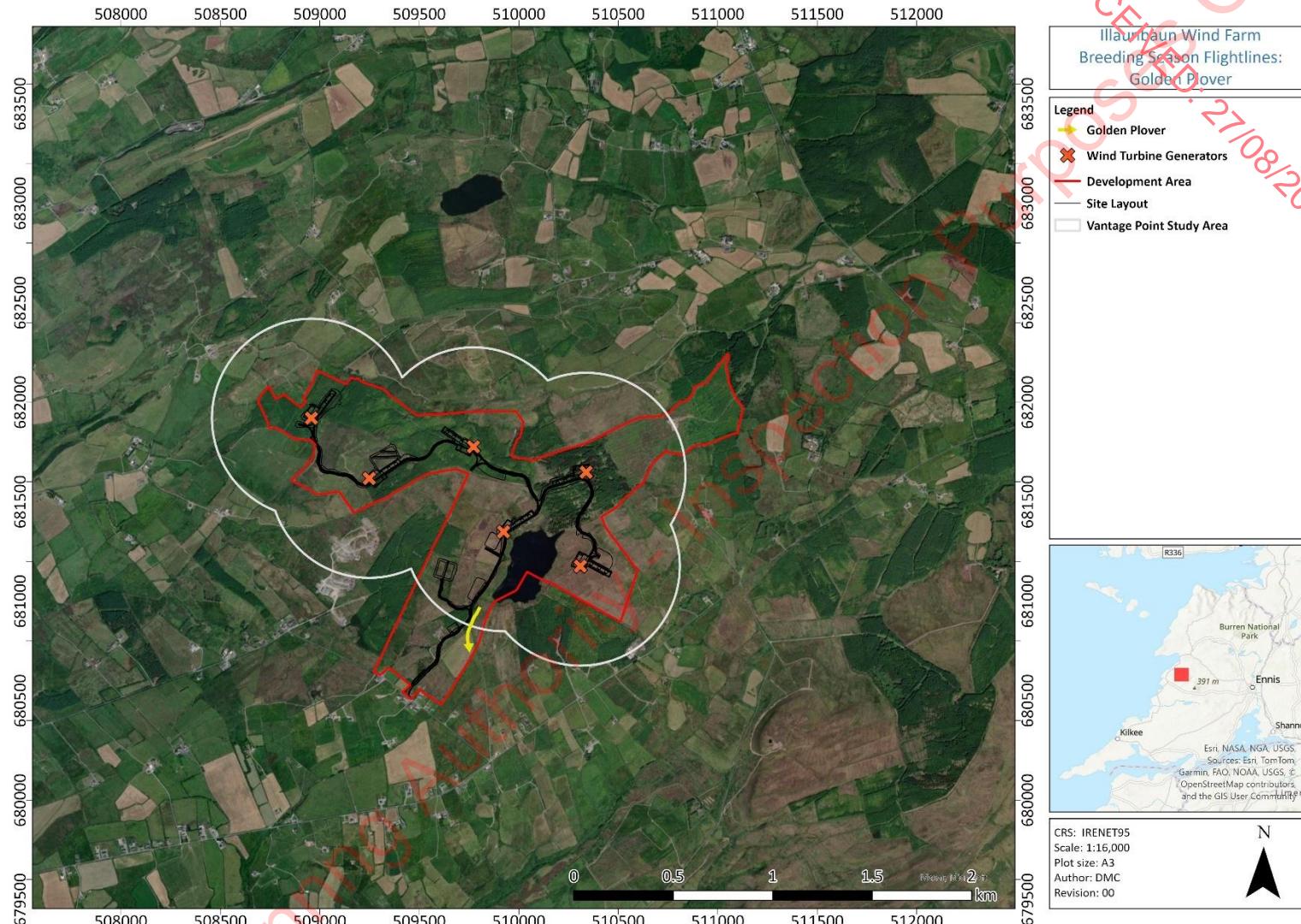


Figure 6.3: Illaunbaun Wind Farm breeding season golden plover flightlines.

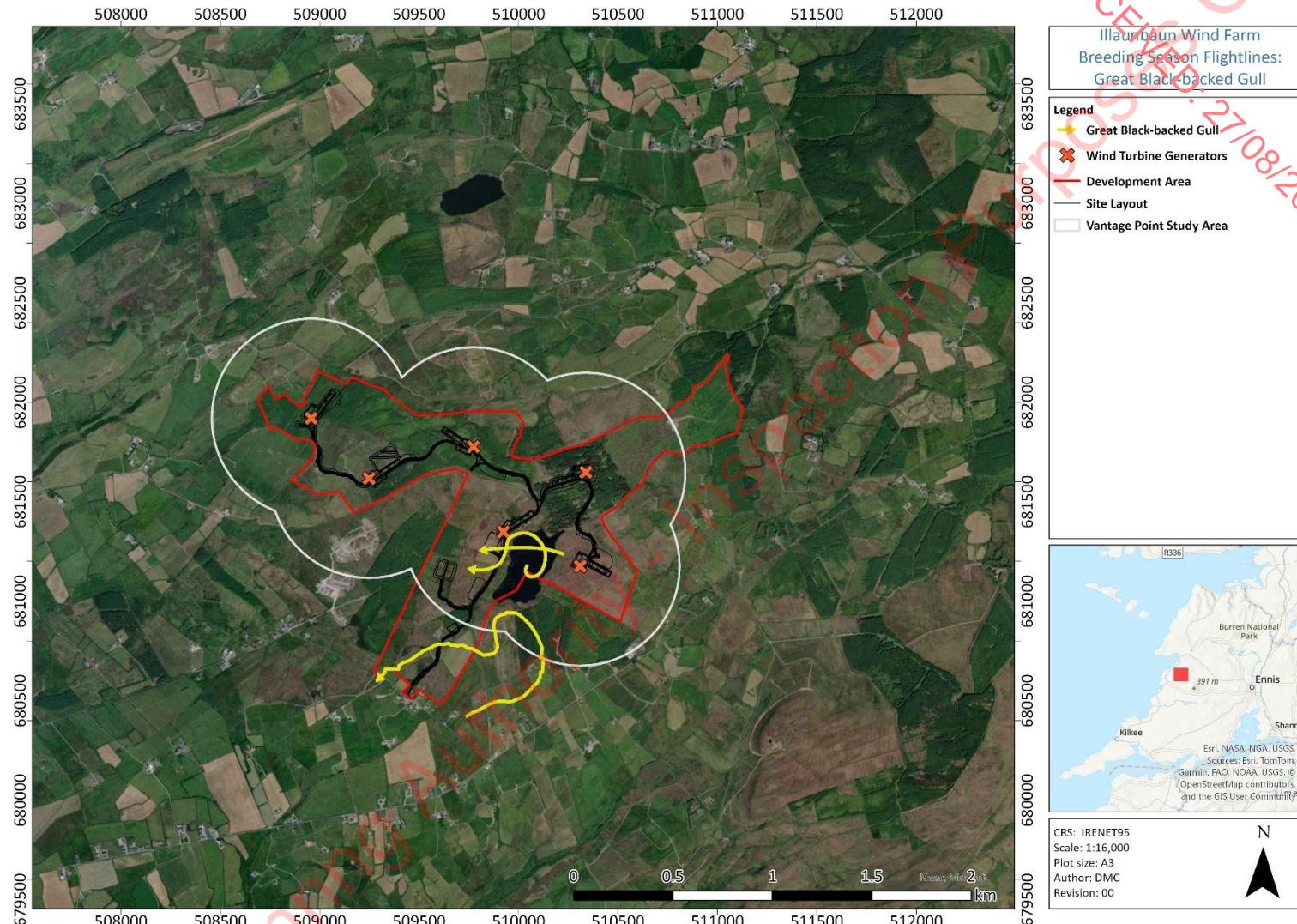


Figure 6.4: Illaunbaun Wind Farm breeding season great black-backed gull flightlines.

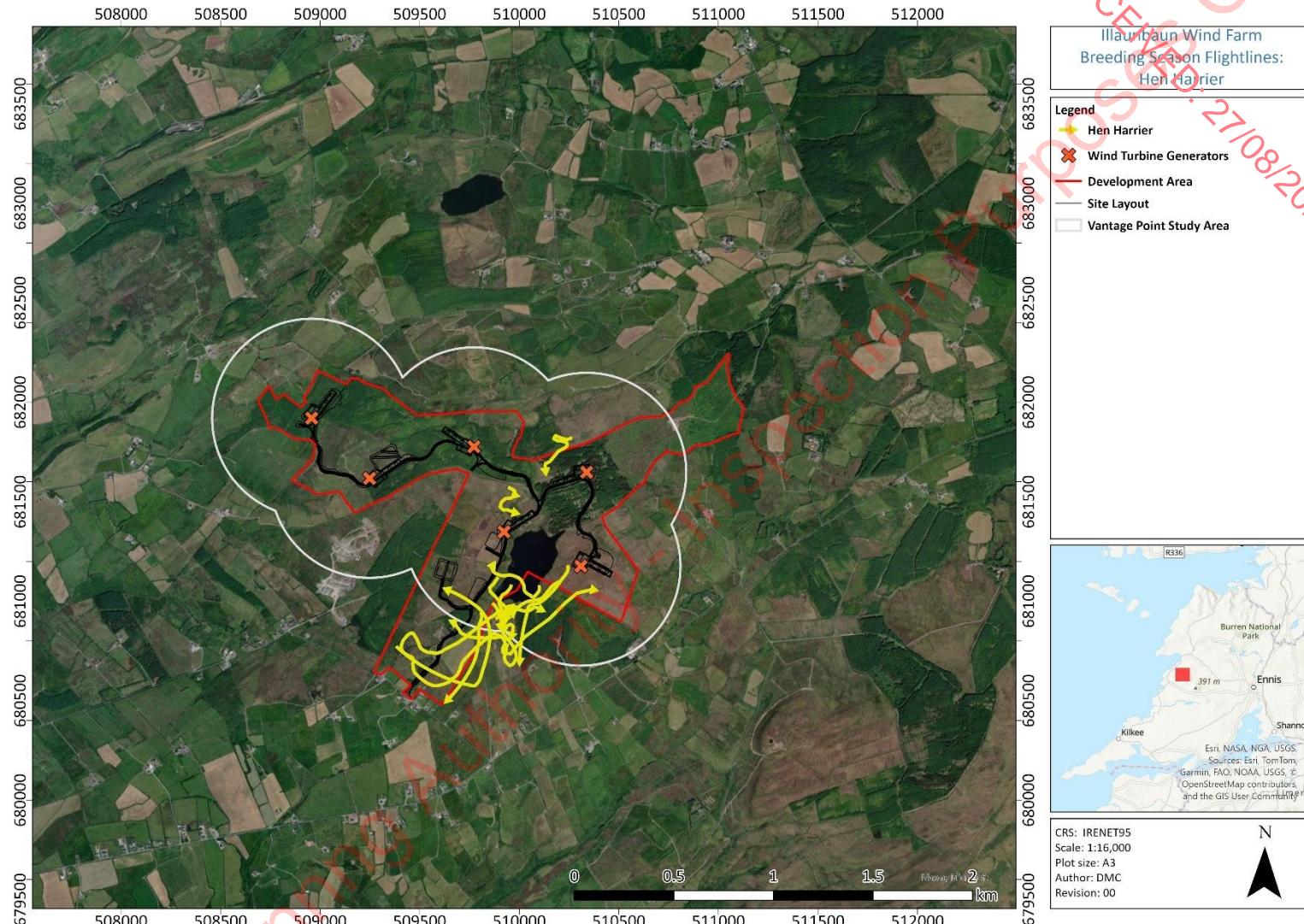


Figure 6.5: Illaunbaun Wind Farm breeding season hen harrier flightlines.

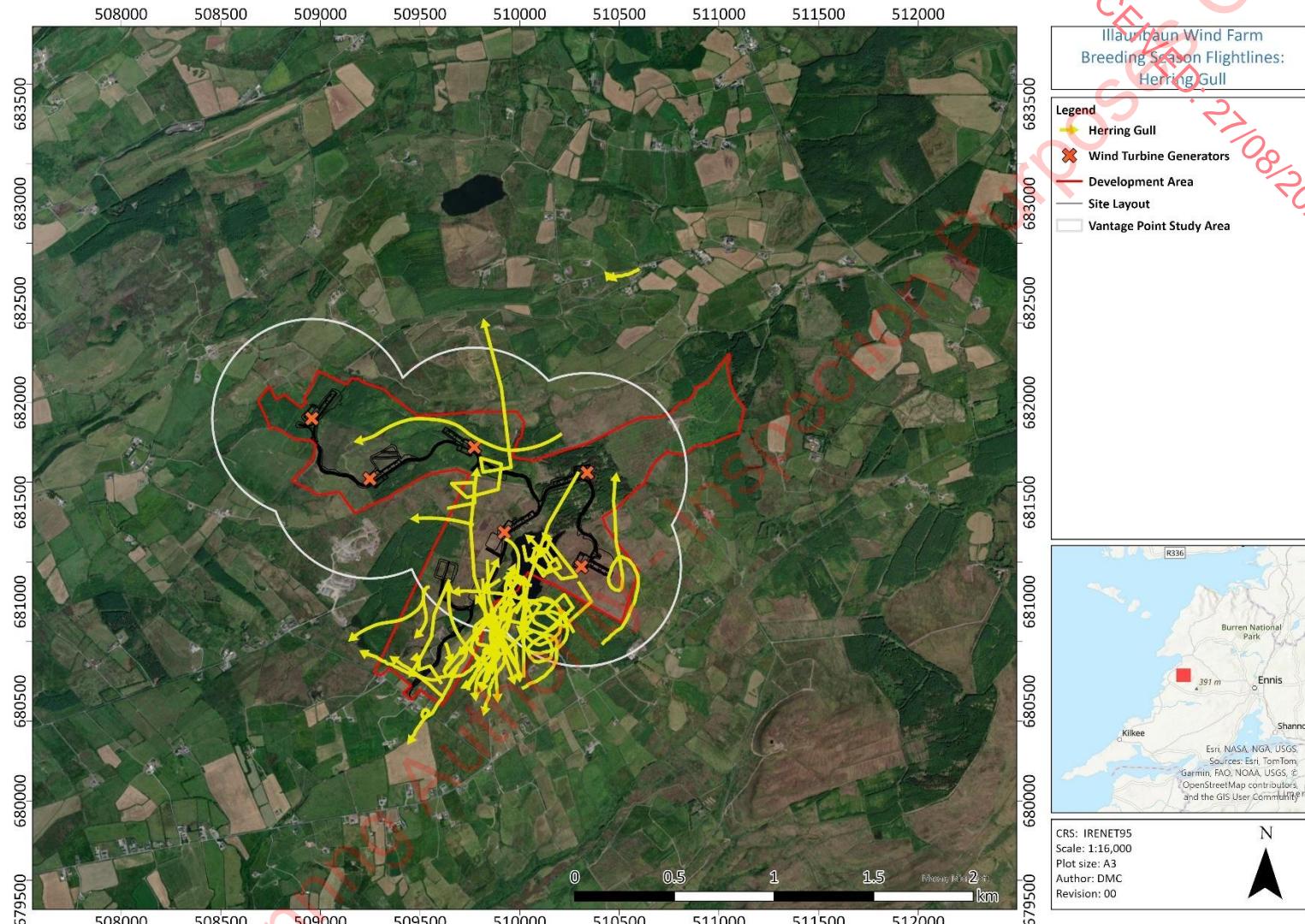


Figure 6.6: Illaunbaun Wind Farm breeding season herring gull flightlines.

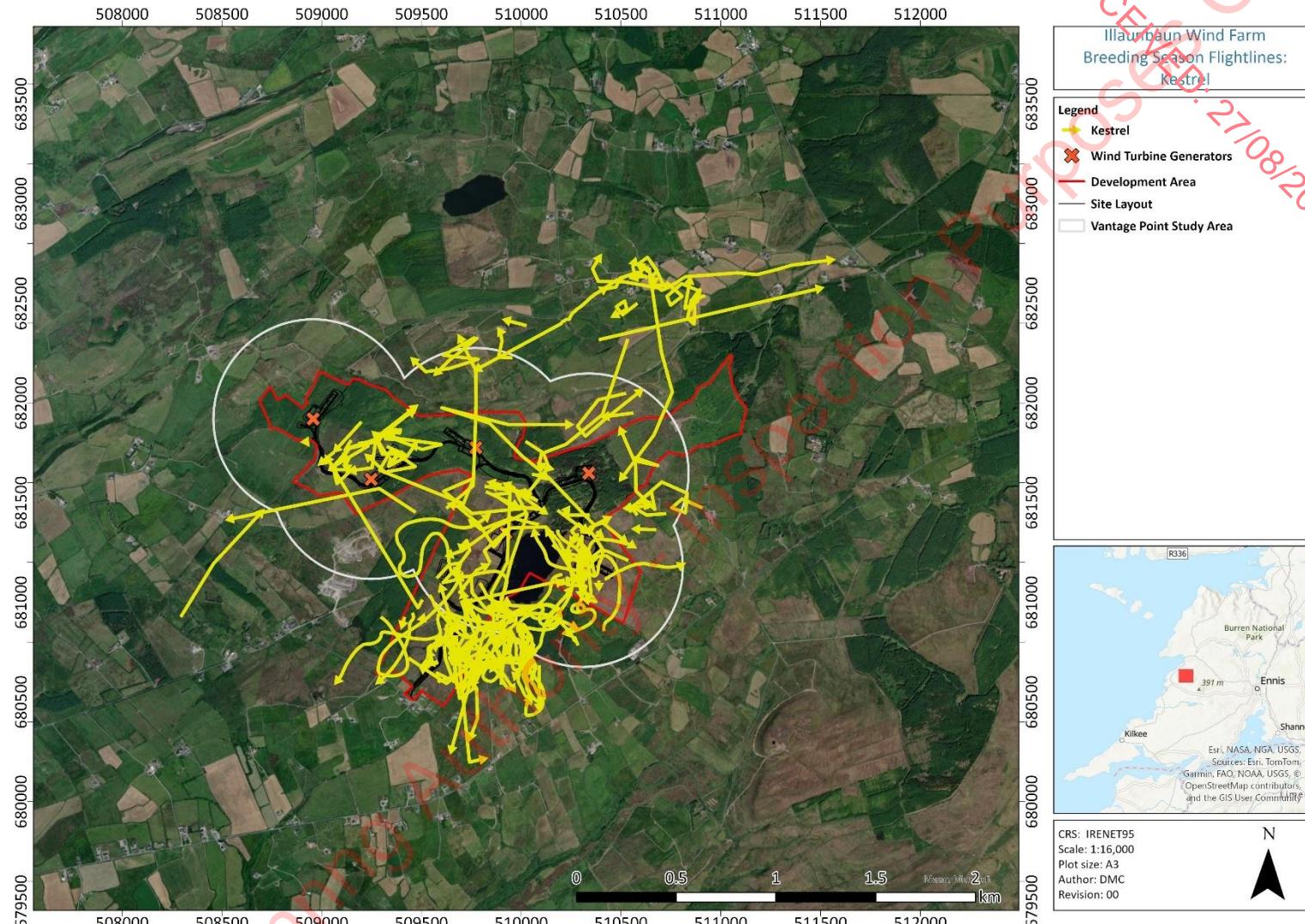


Figure 6.7: Illaunbaun Wind Farm breeding season kestrel flightlines.

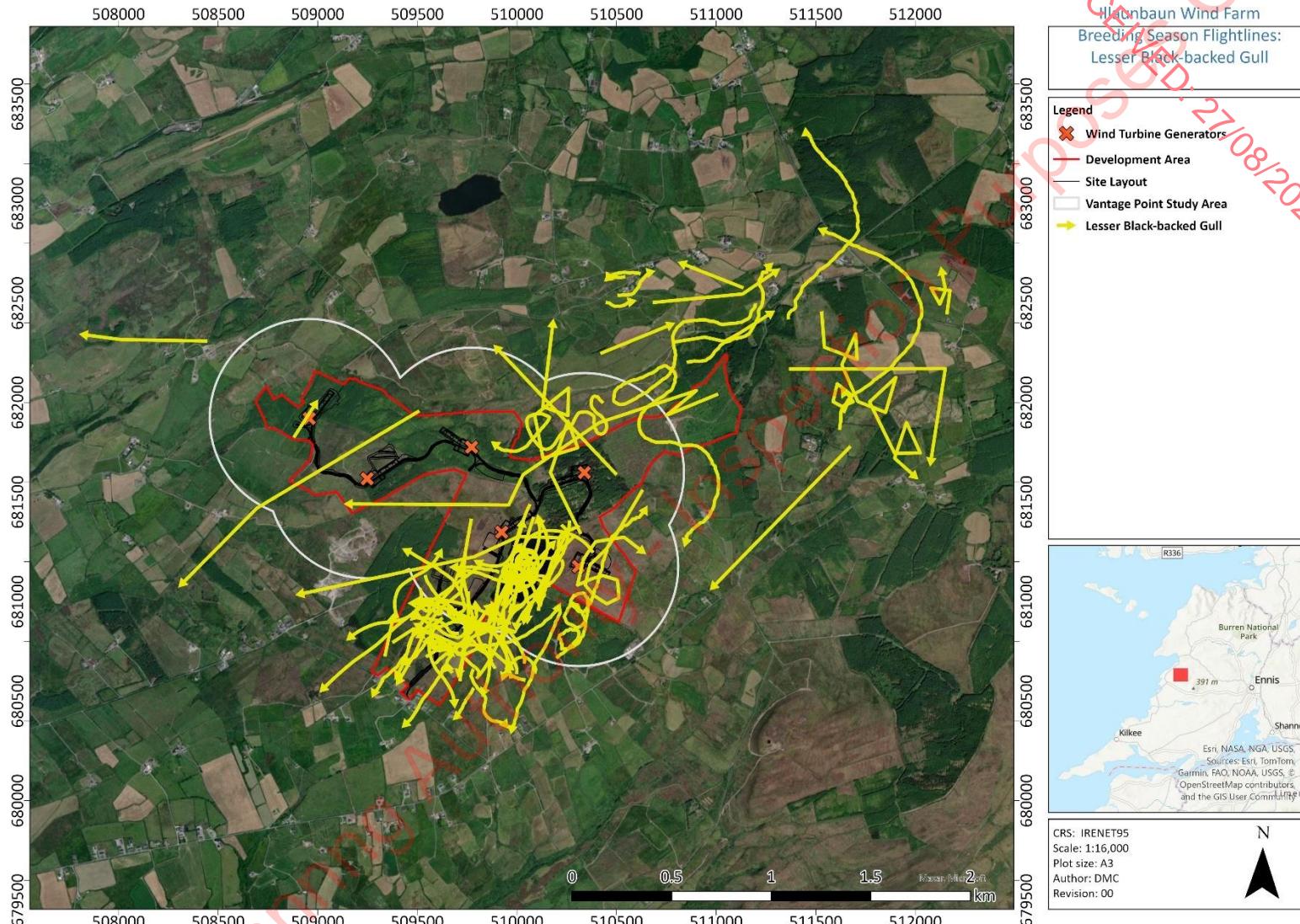


Figure 6.8: Illaunbaun Wind Farm breeding season lesser black-backed gull flightlines.

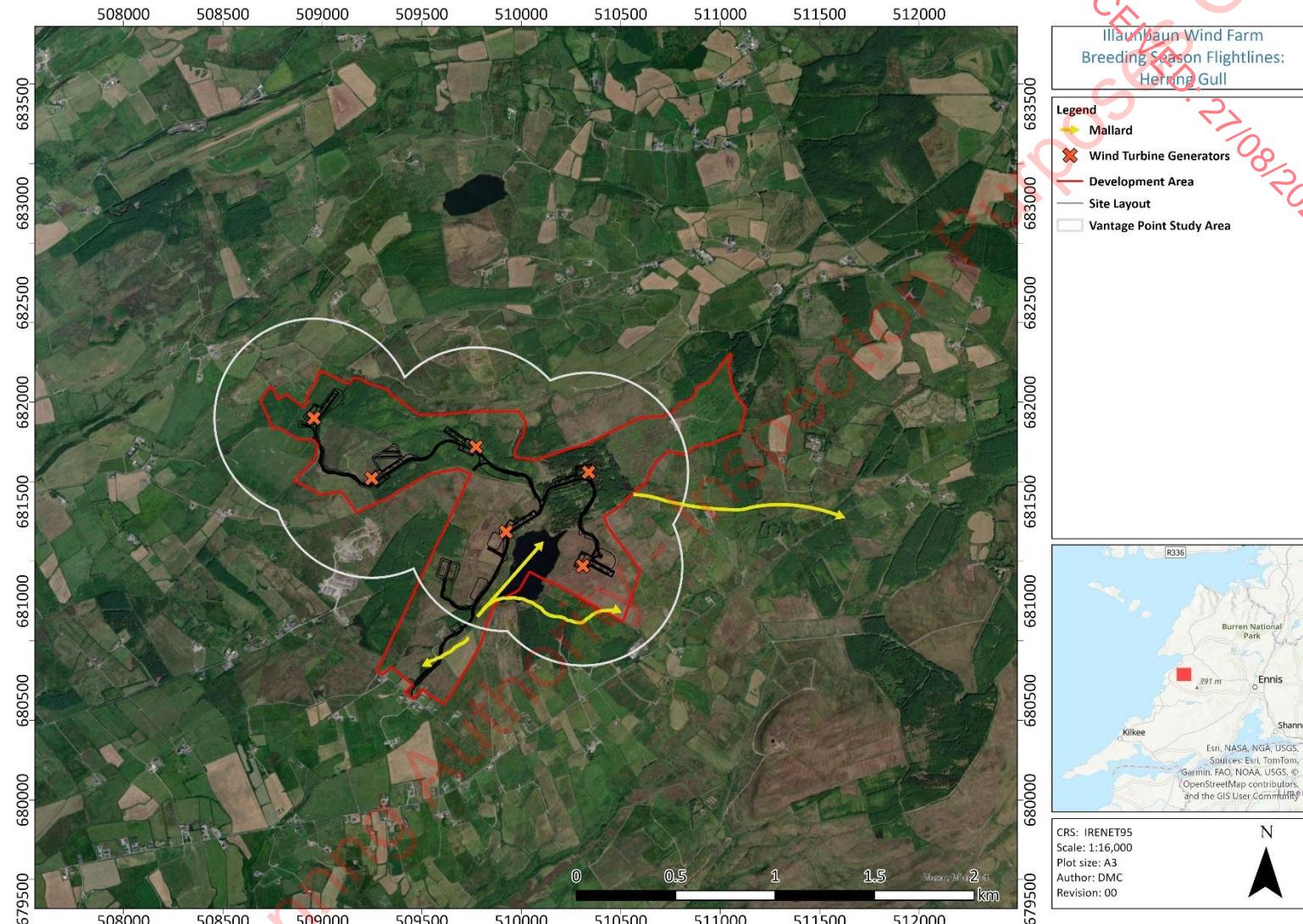


Figure 6.9: Illaunbaun Wind Farm breeding season mallard flightlines.

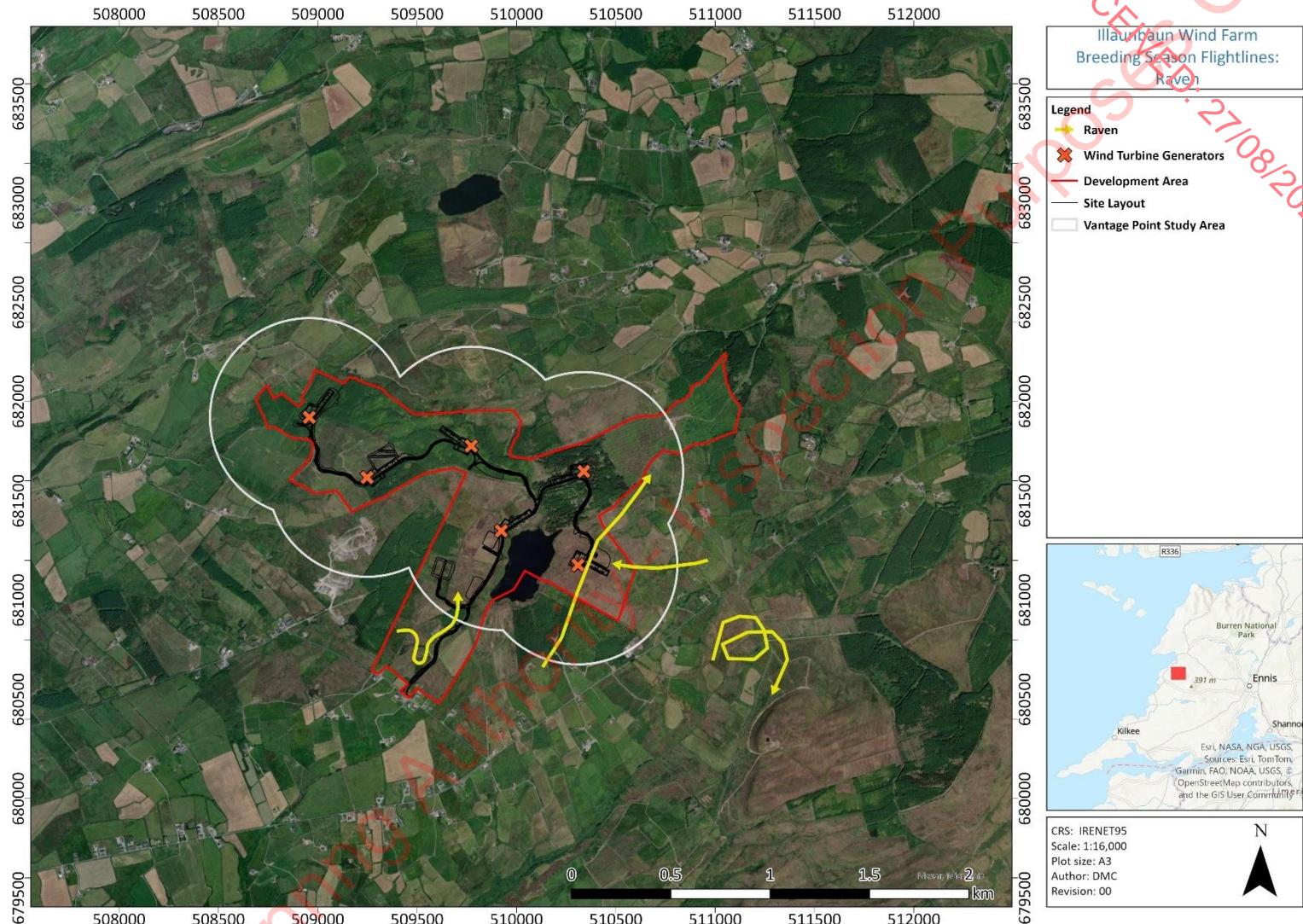


Figure 6.10: Illaunbaun Wind Farm breeding season raven flightlines.

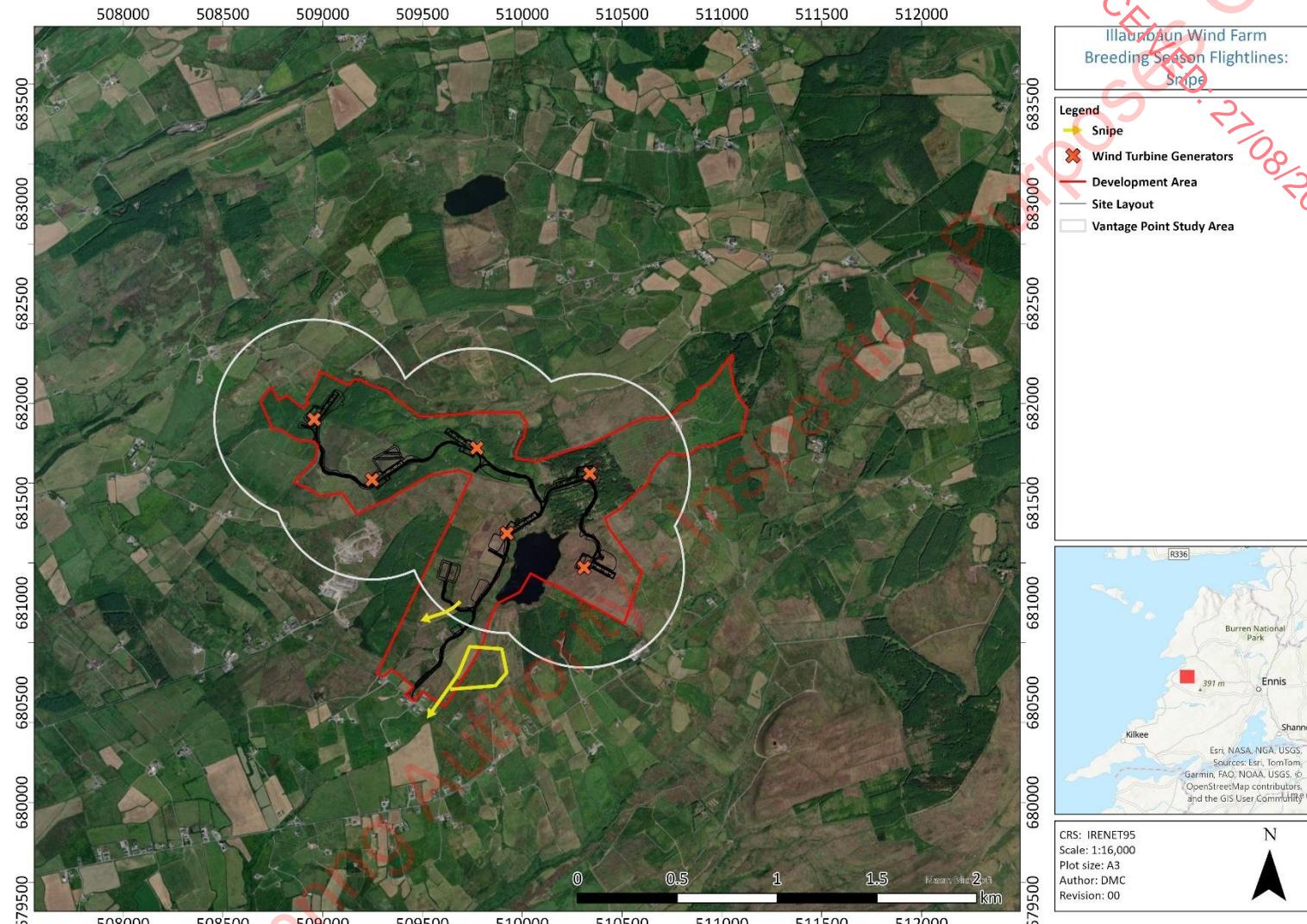


Figure 6.11: Illaunbaun Wind Farm breeding season snipe flightlines.

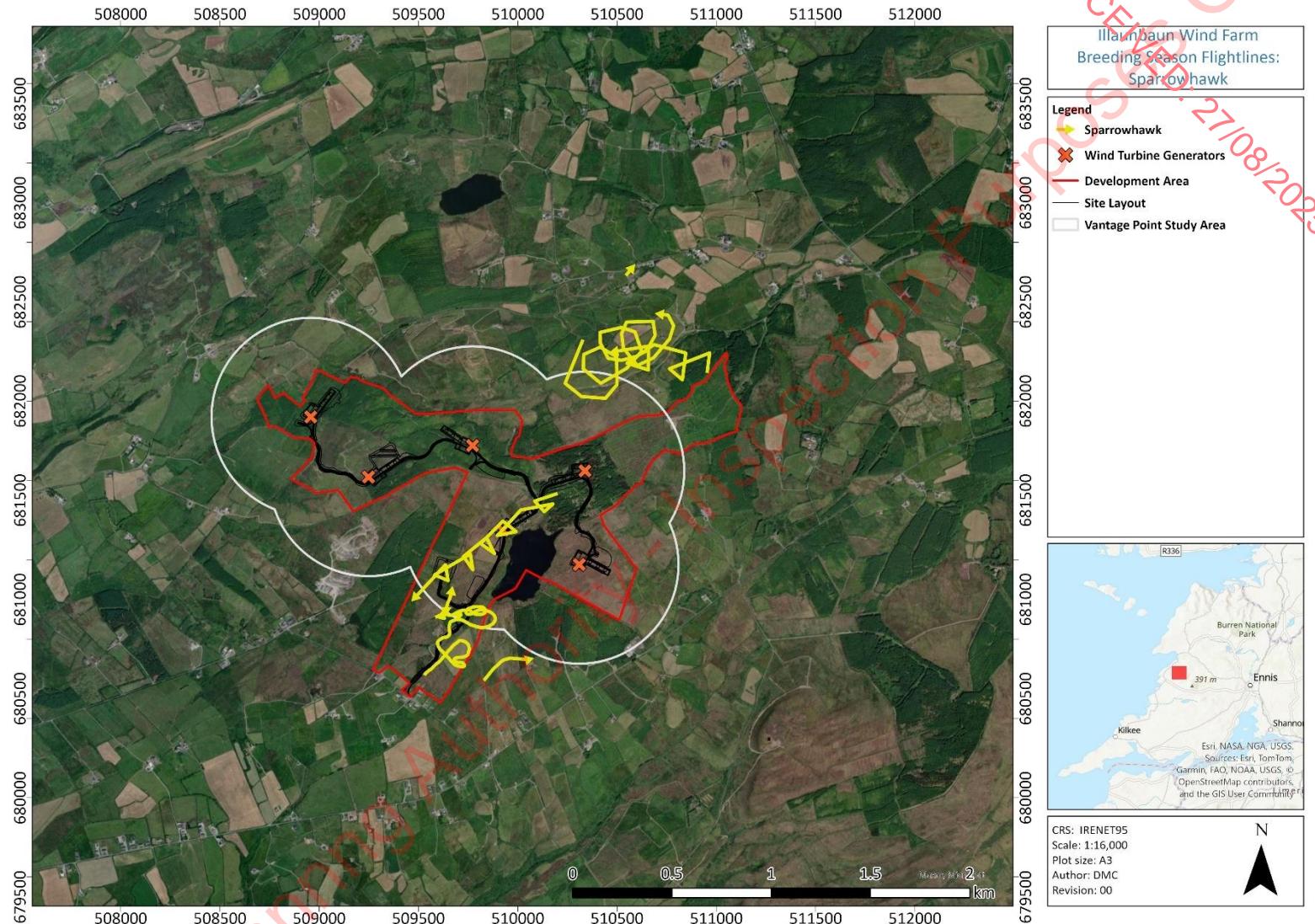


Figure 6.12: Illaunbaun Wind Farm breeding season sparrowhawk flightlines.

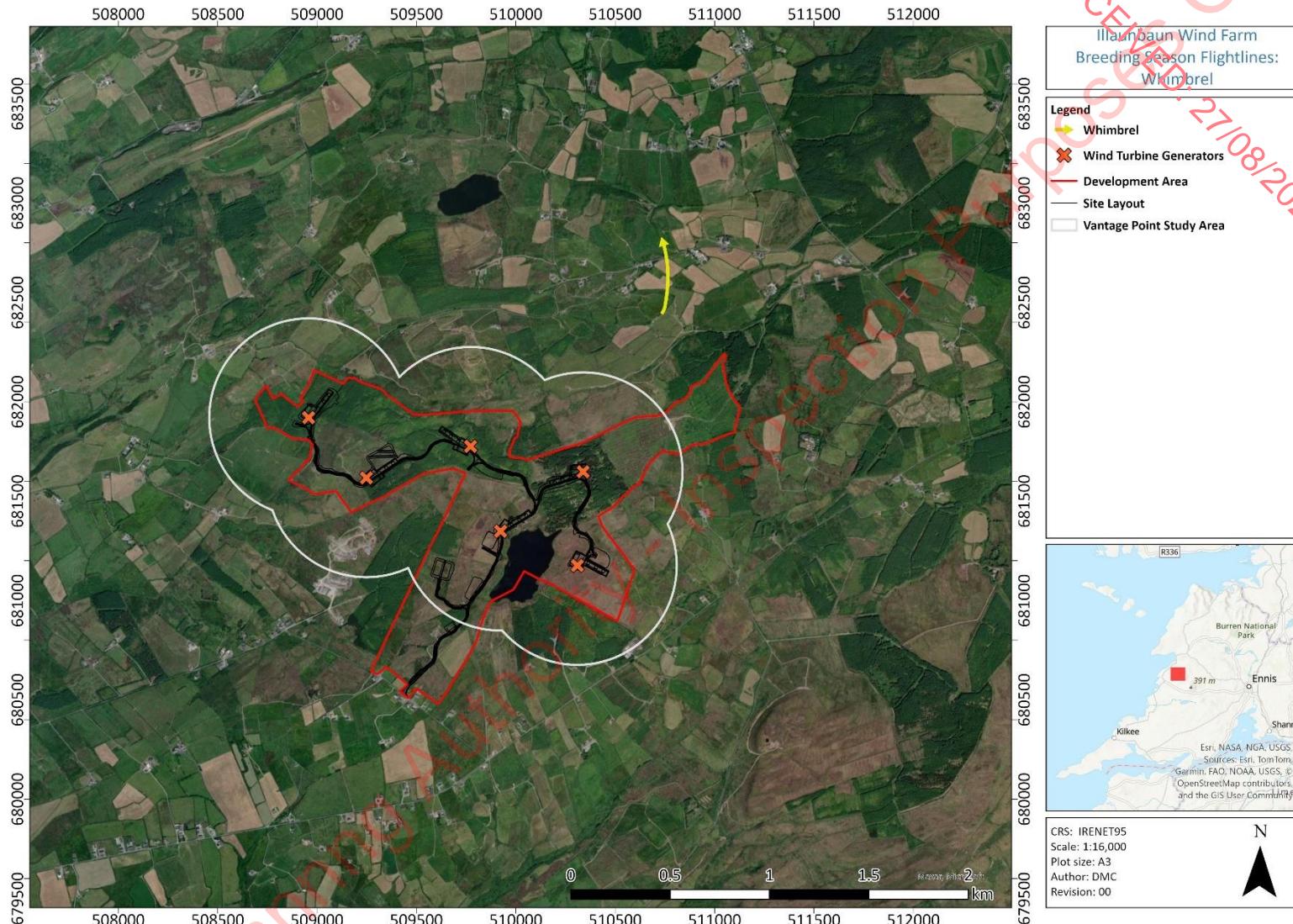


Figure 6.13: Illaunbaun Wind Farm breeding season whimbrel flightlines.

6.2. Winter Season Flightlines

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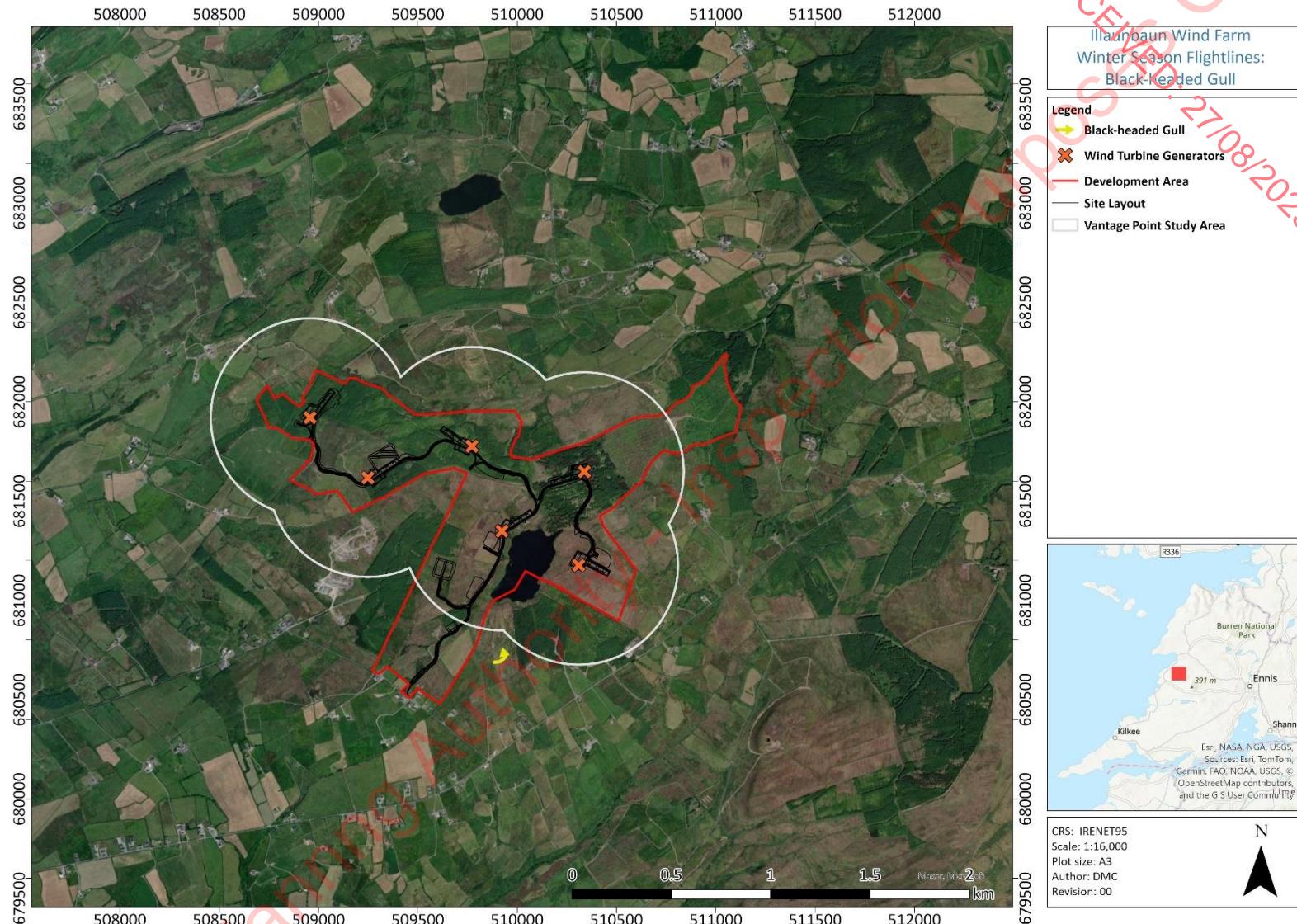


Figure 6.14: Illaunbaun Wind Farm winter season black-headed gull flightlines.

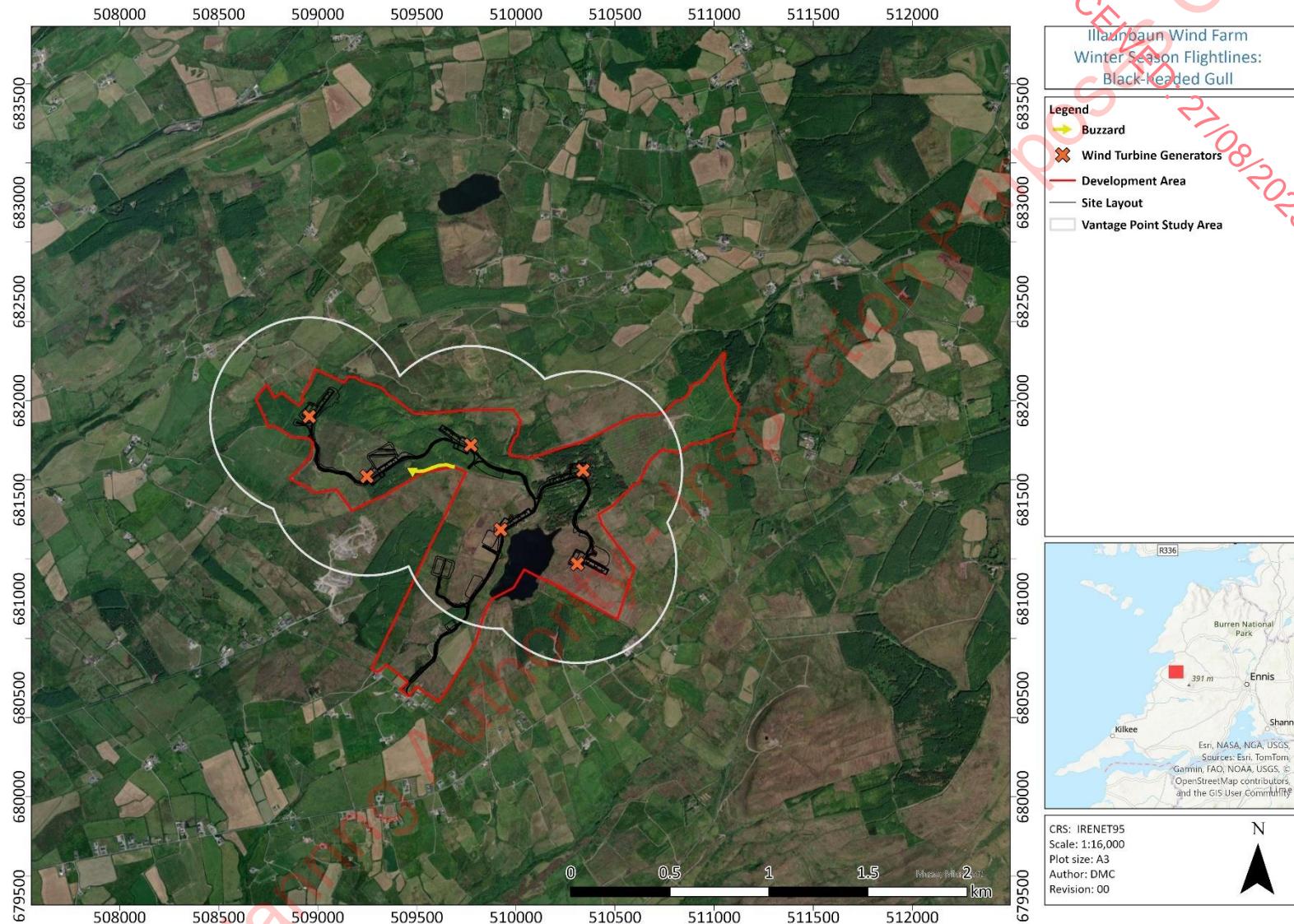


Figure 6.15: Illaunbaun Wind Farm winter season buzzard flightlines.

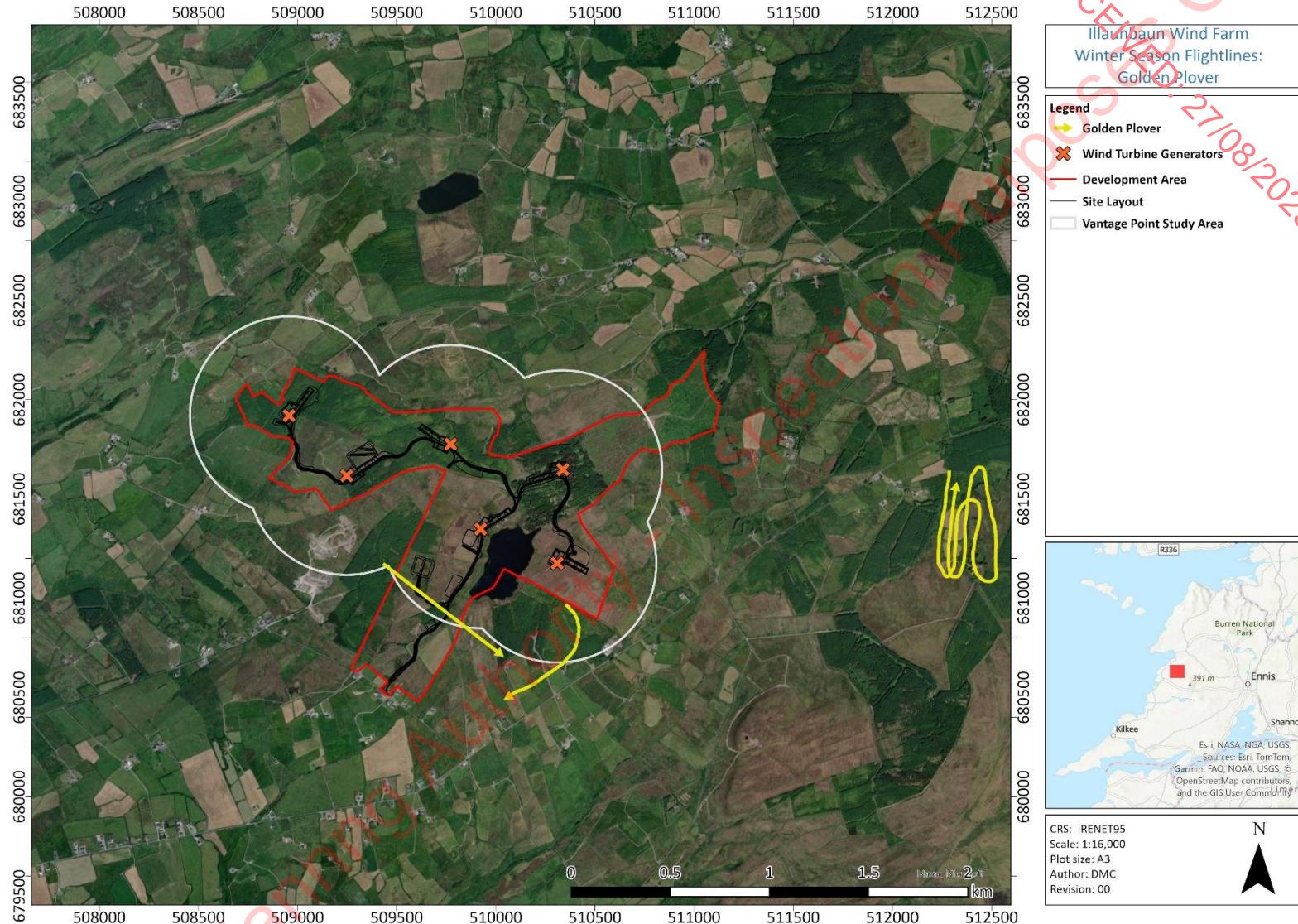


Figure 6.16: Illaunbaun Wind Farm winter season golden plover flightlines.

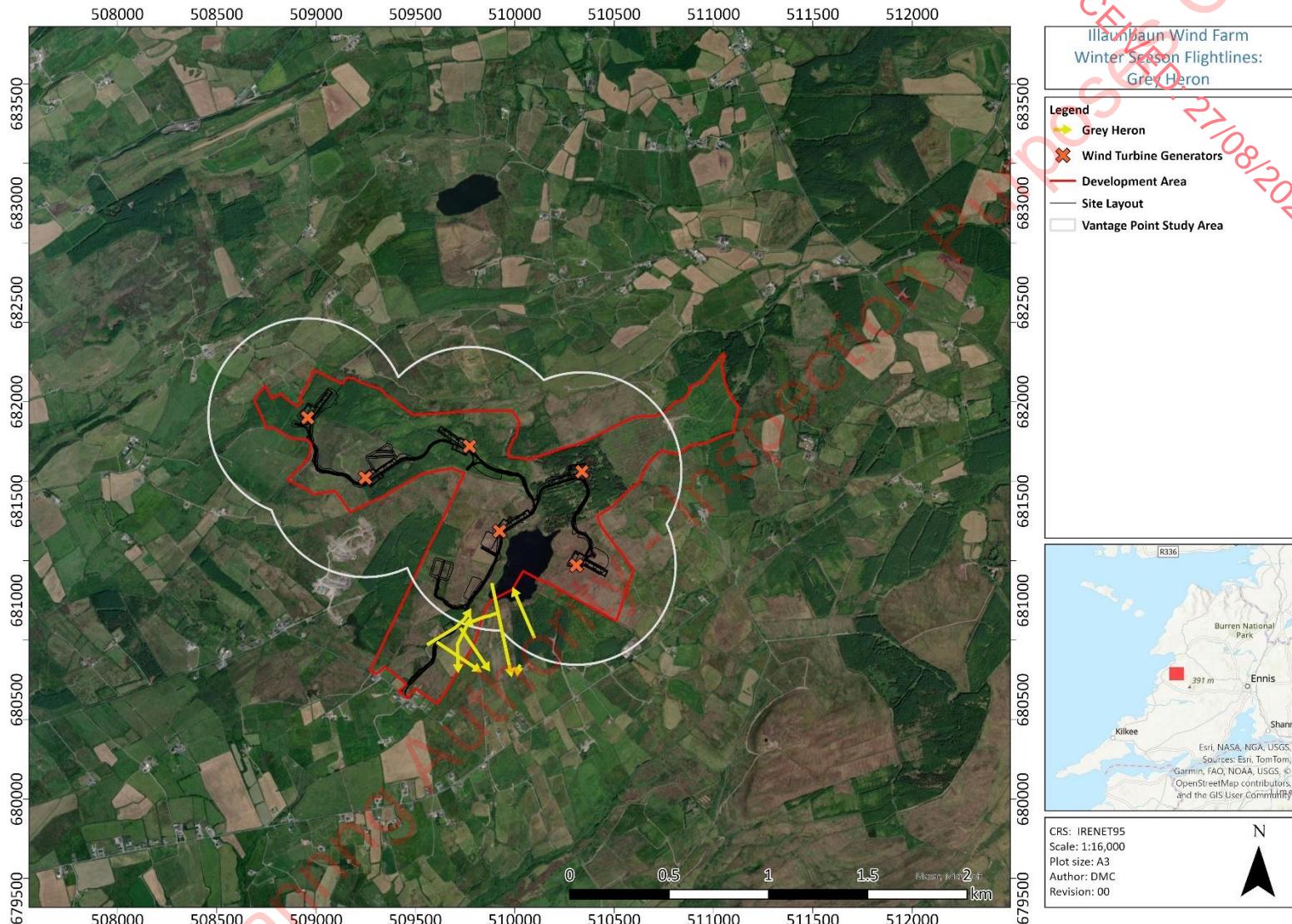


Figure 6.17: Illaunbaun Wind Farm winter season grey heron flightlines.

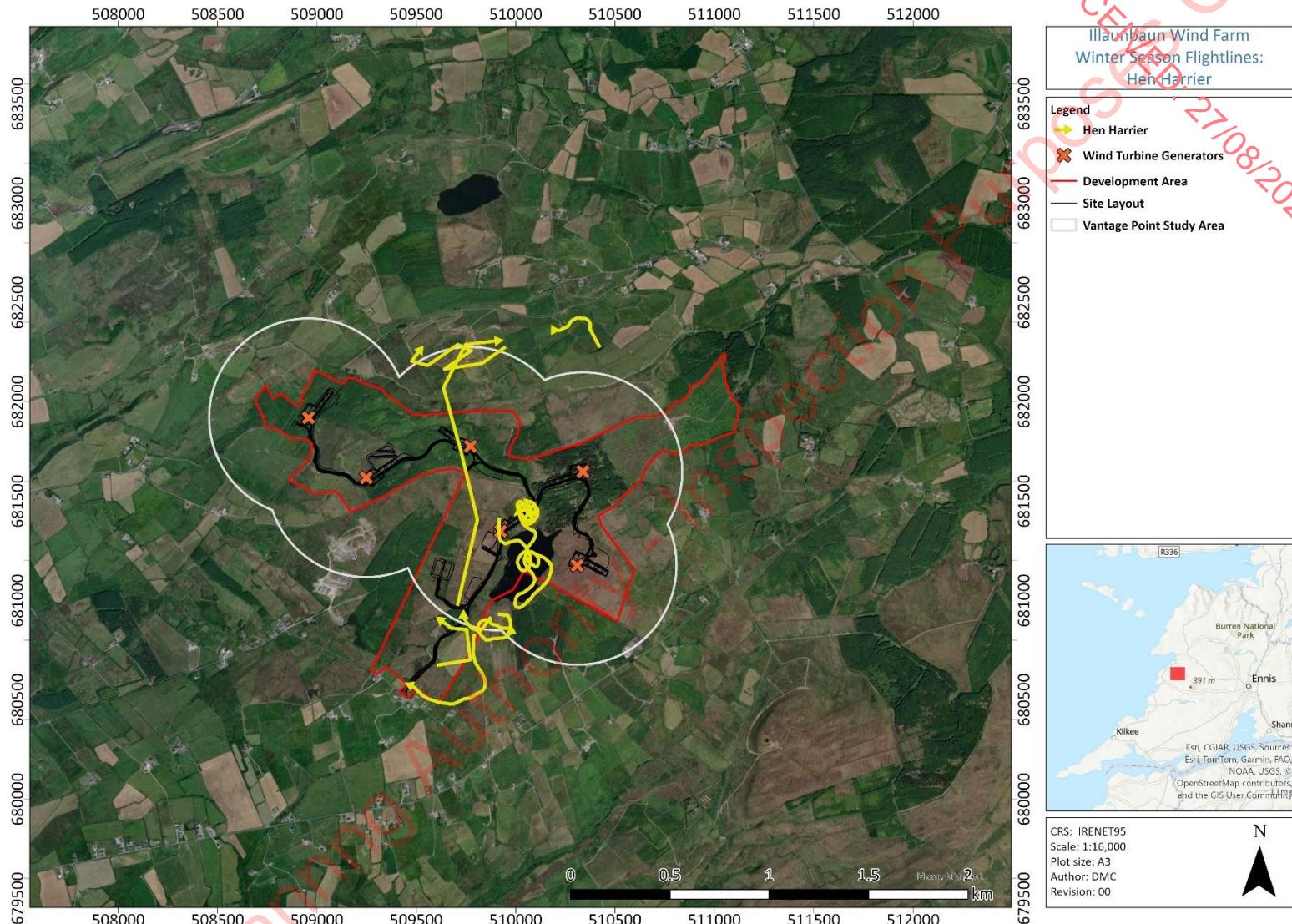


Figure 6.18: Illaunbaun Wind Farm winter season hen harrier flightlines.

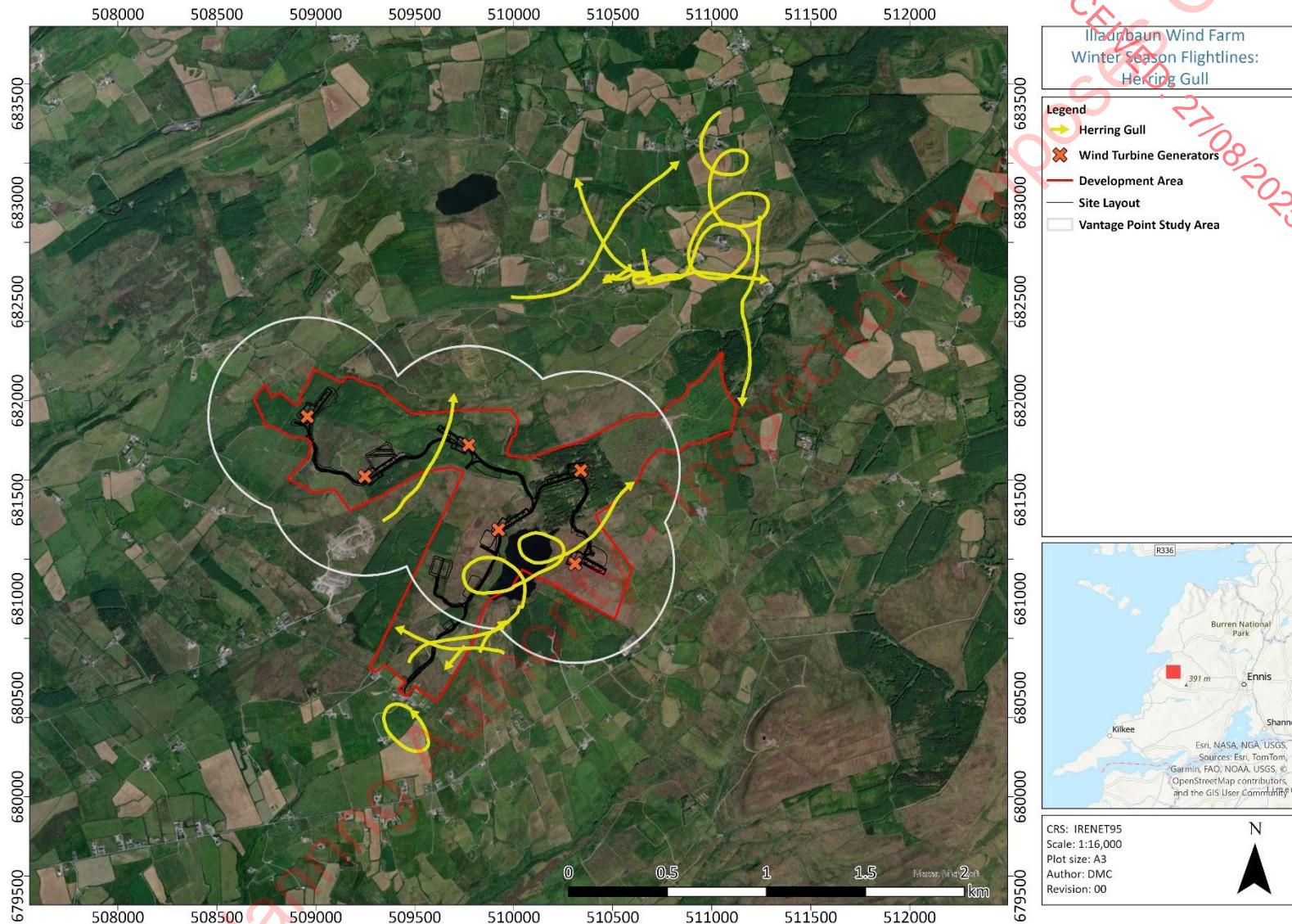


Figure 6.19: Illaunbaun Wind Farm winter season herring gull flightlines.

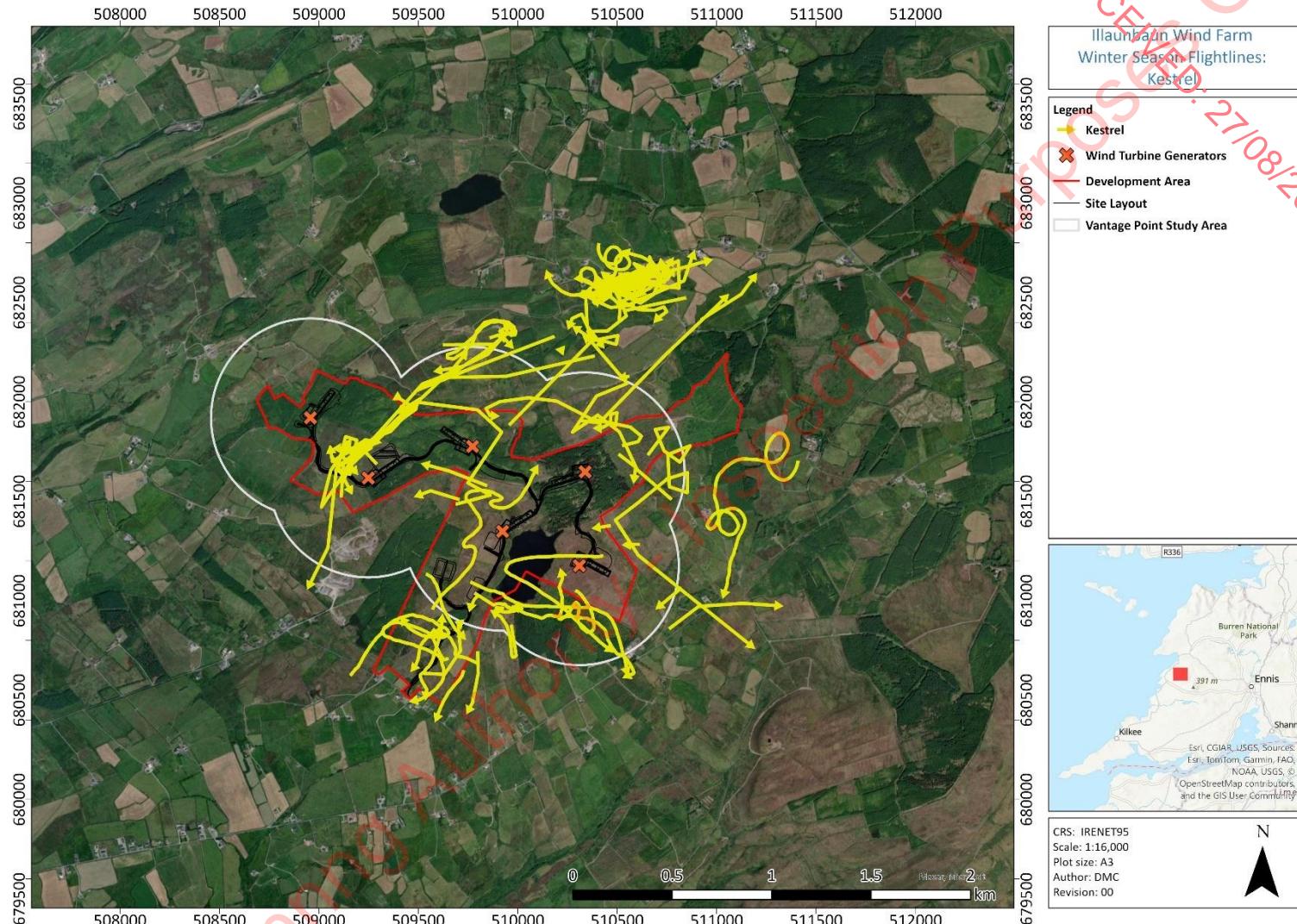


Figure 6.20: Illaunbaun Wind Farm winter season kestrel flightlines.

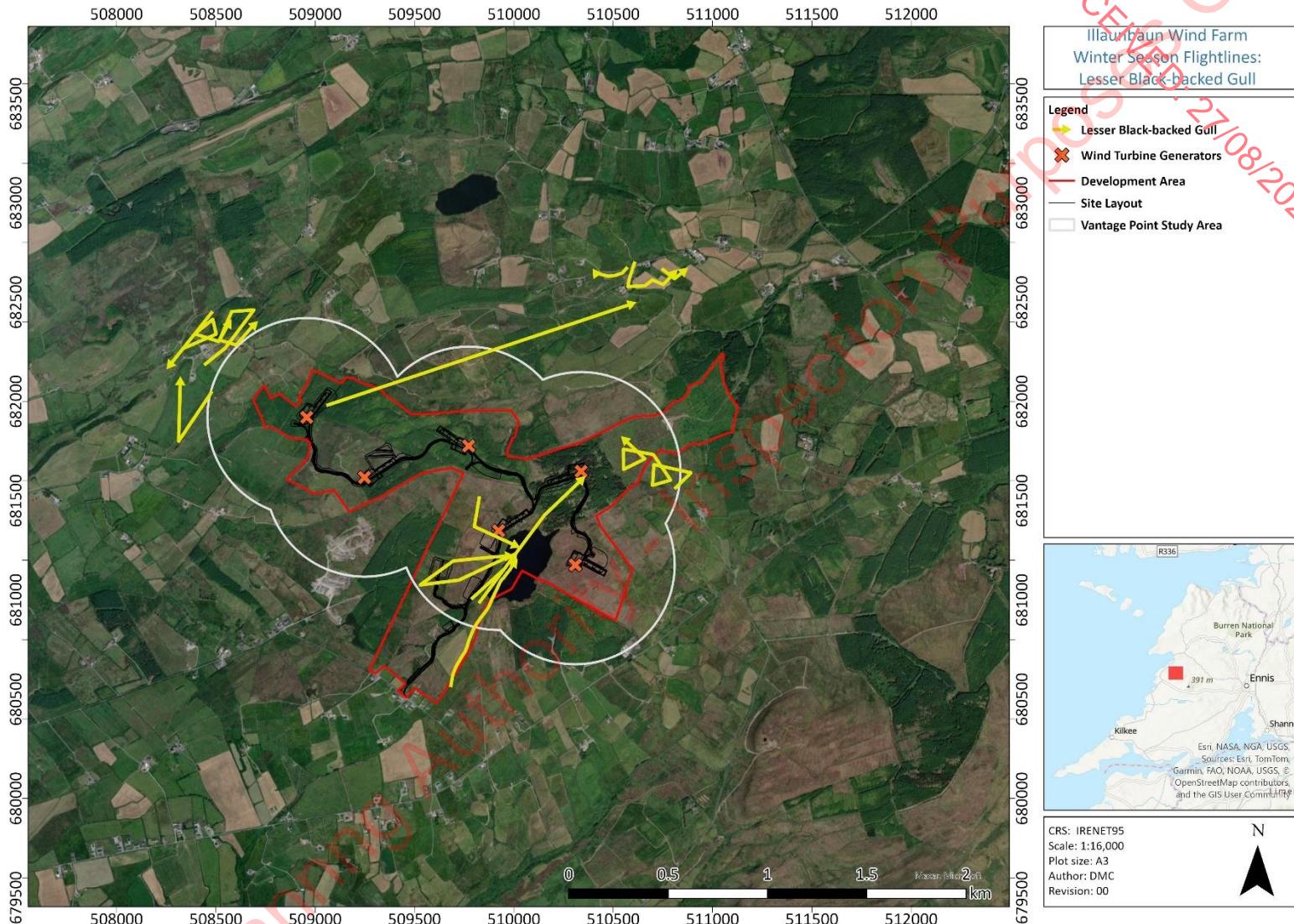


Figure 6.21: Illaunbaun Wind Farm winter season lesser black-backed gull flightlines.

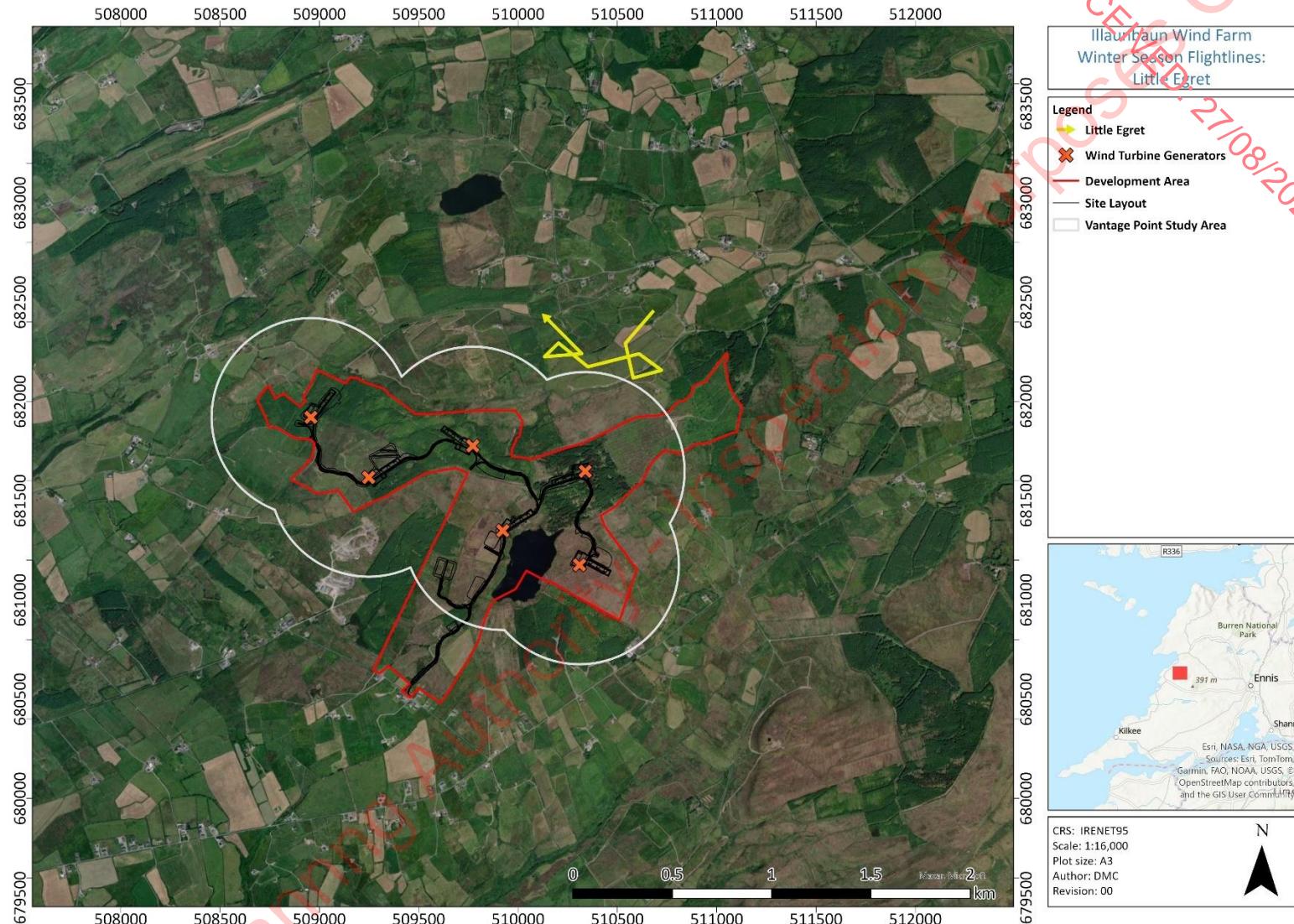


Figure 6.22: Illaunbaun Wind Farm winter season little egret flightlines.

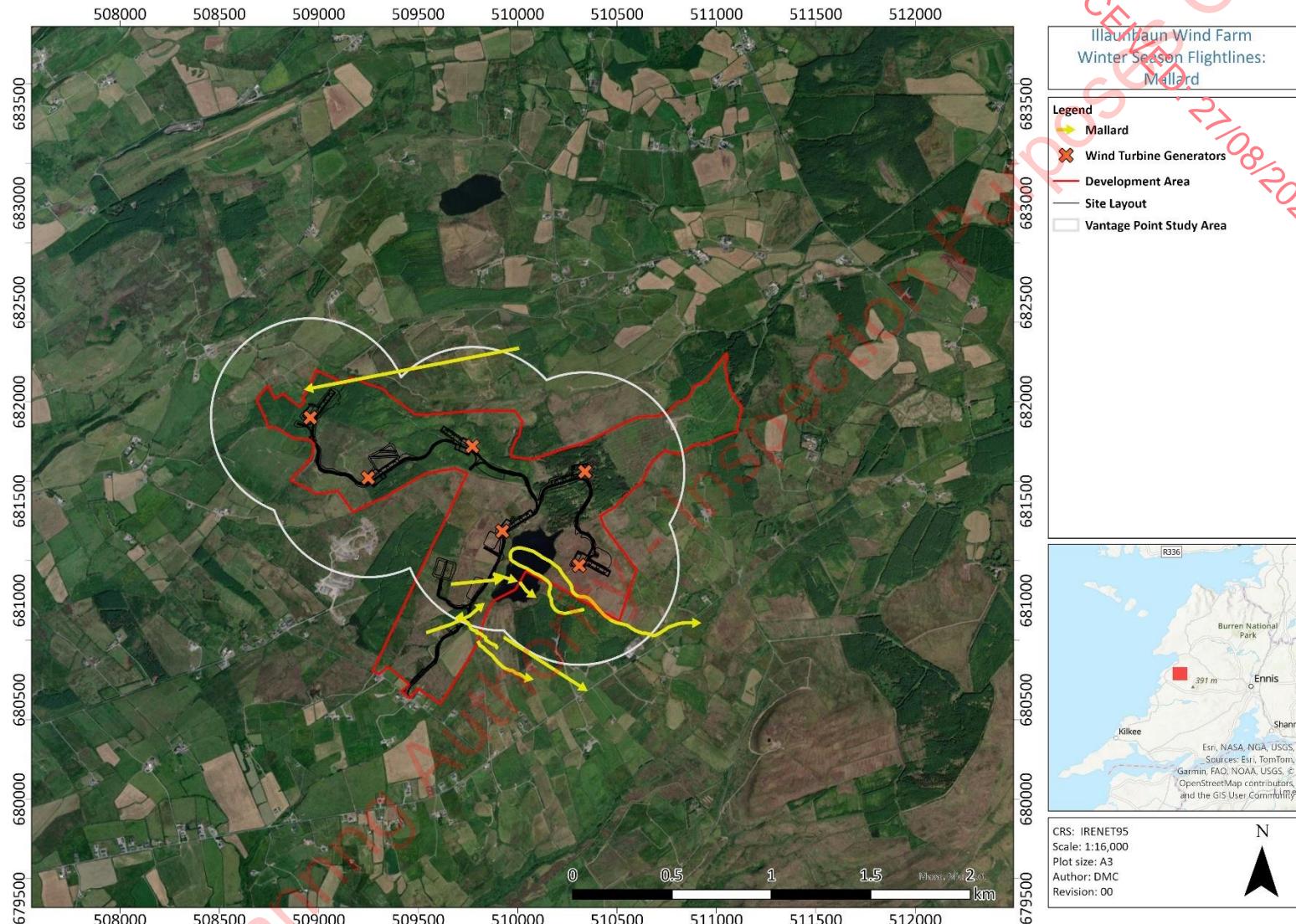


Figure 6.23: Illaunbaun Wind Farm winter season mallard flightlines.

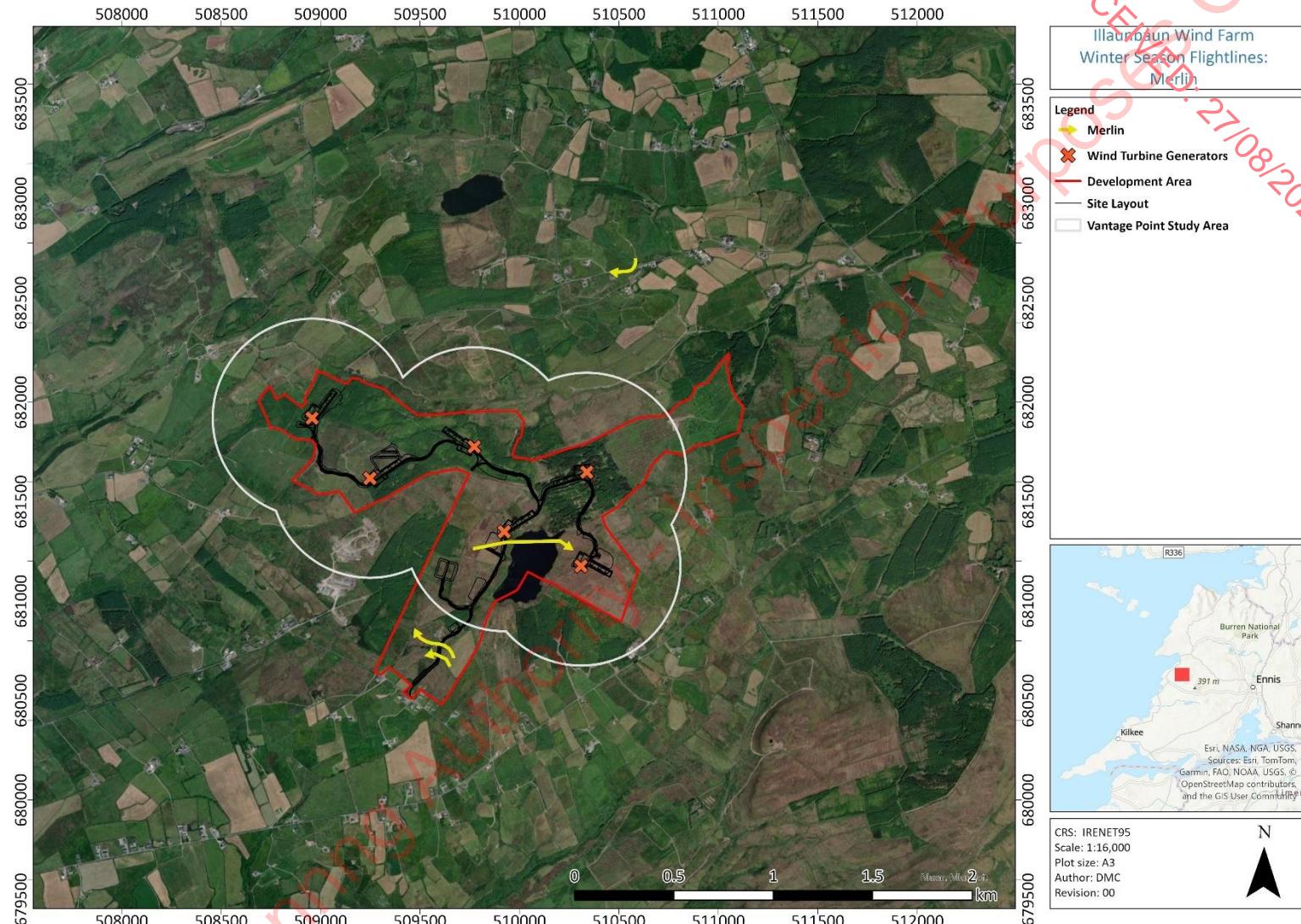


Figure 6.24: Illaunbaun Wind Farm winter season merlin flightlines.

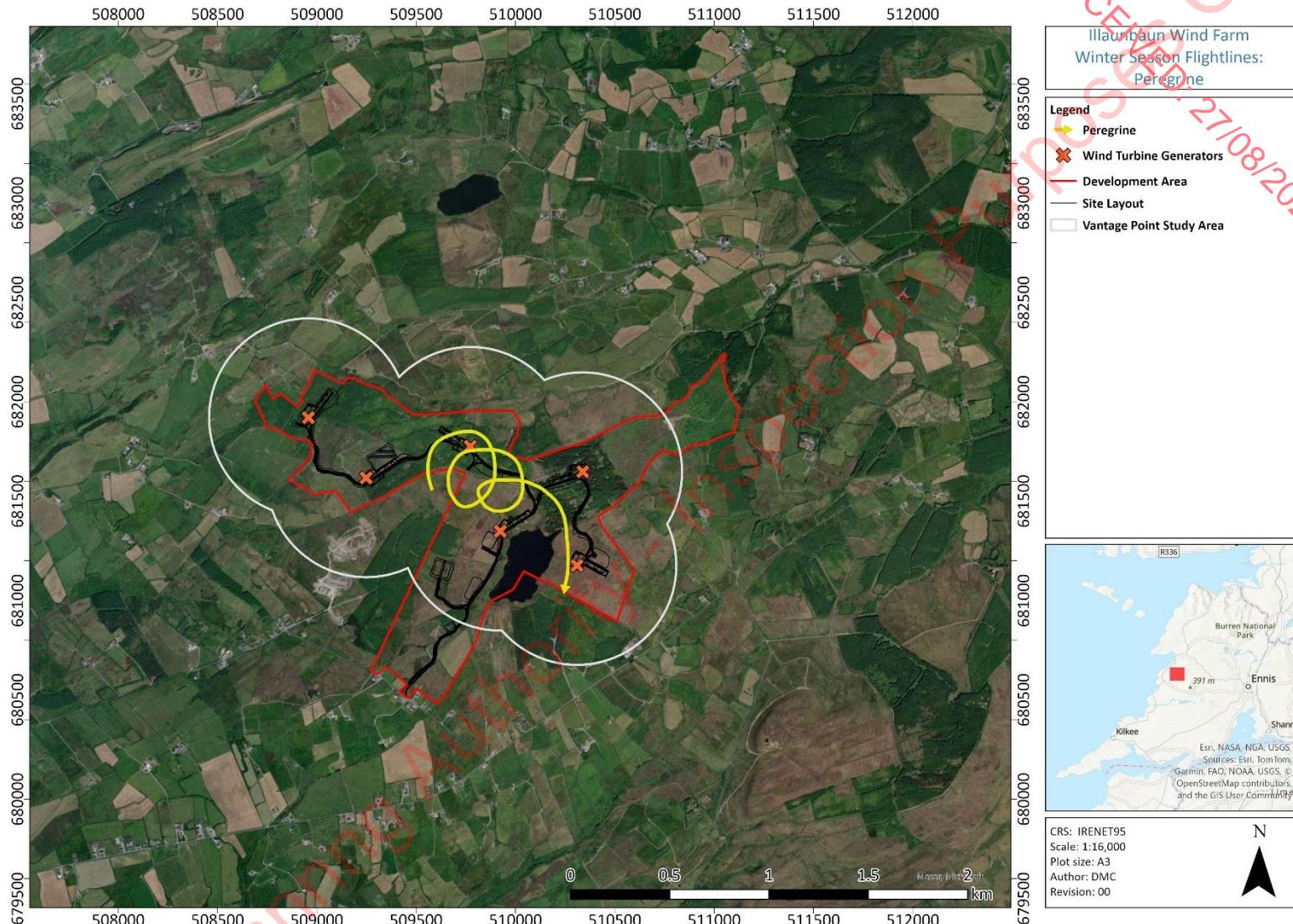


Figure 6.25: Illaunbaun Wind Farm winter season peregrine flightlines.

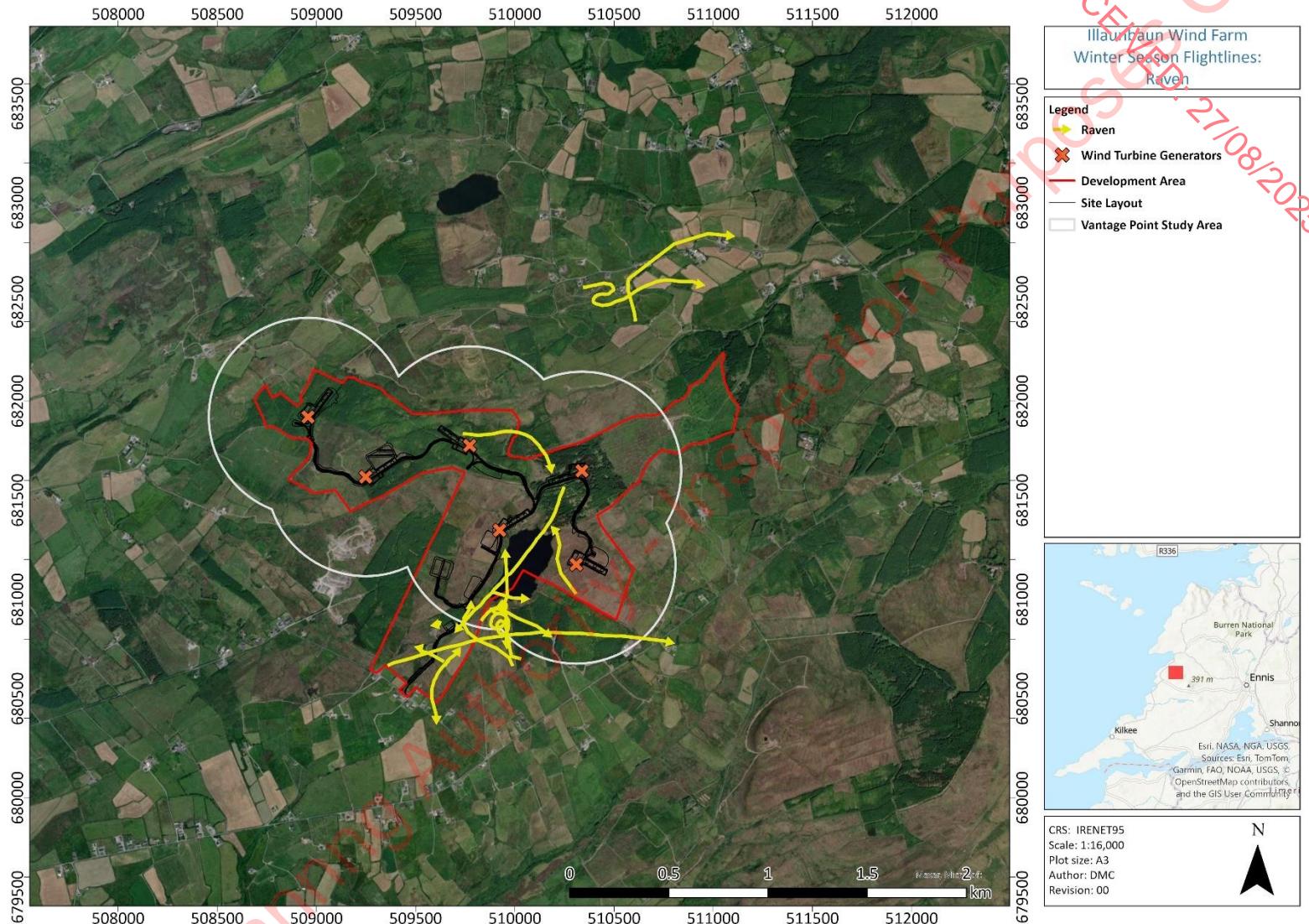


Figure 6.26: Illaunbaun Wind Farm winter season raven flightlines.

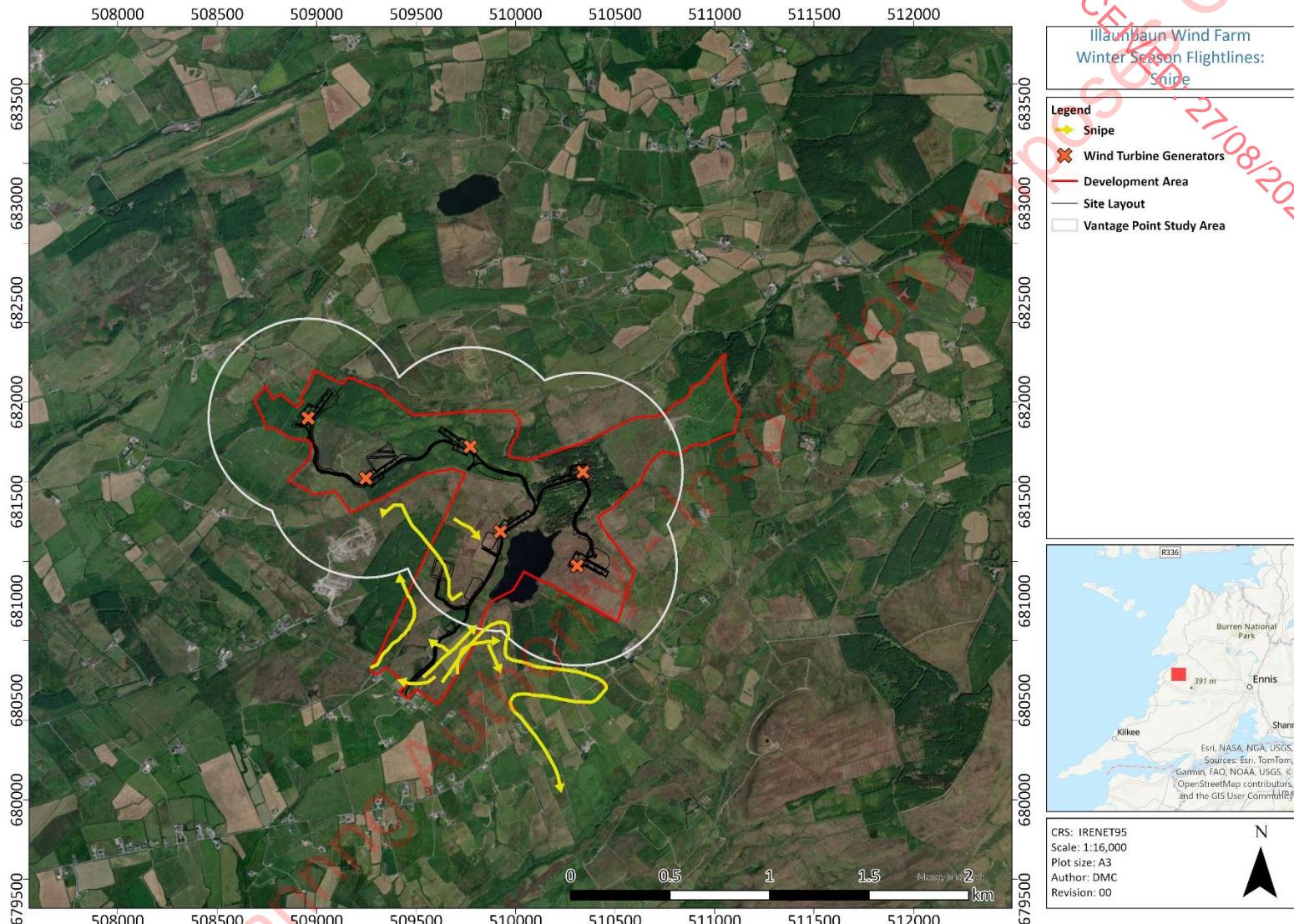


Figure 6.27: Illaunbaun Wind Farm winter season snipe flightlines.

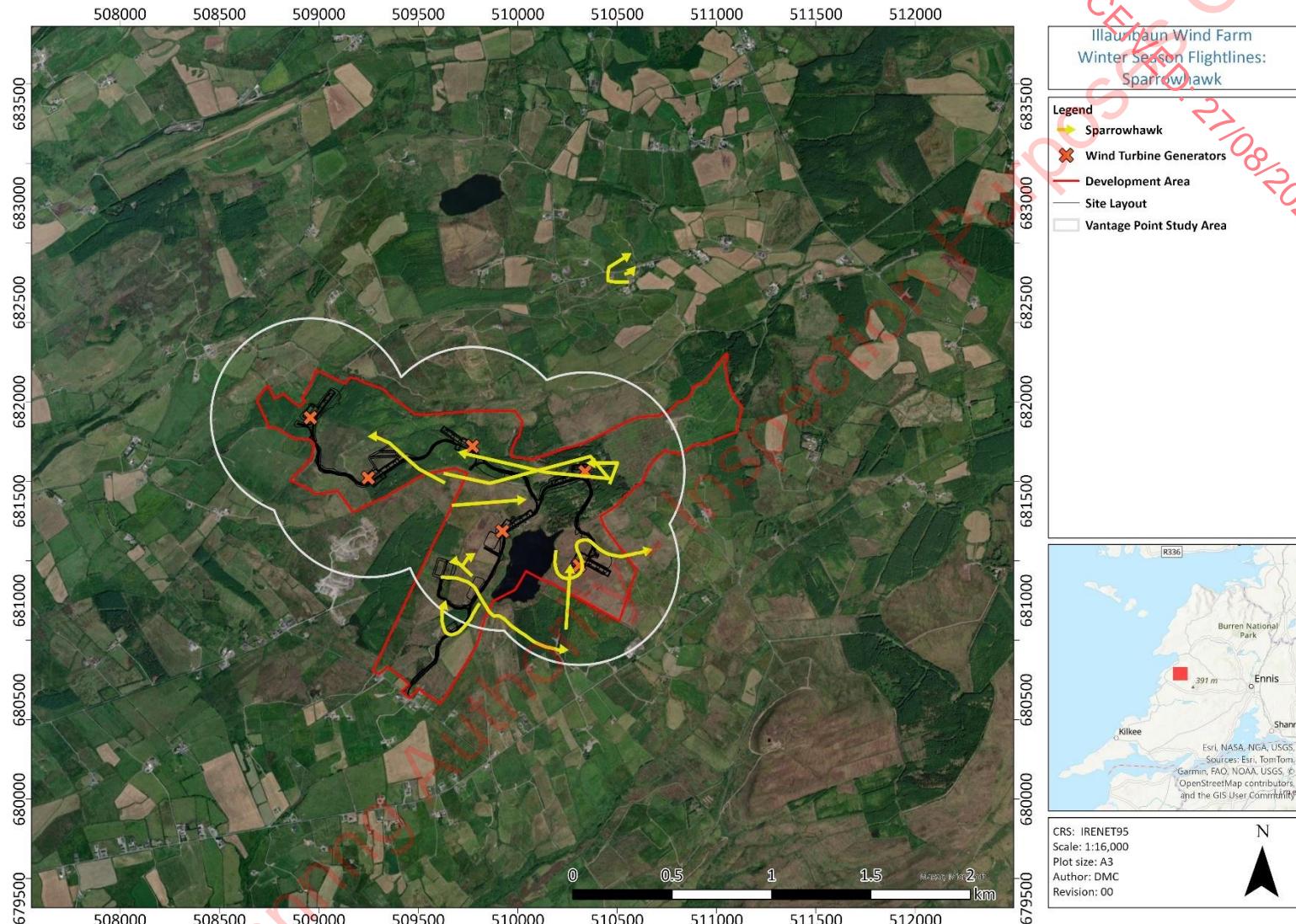


Figure 6.28: Illaunbaun Wind Farm winter season sparrowhawk flightlines.

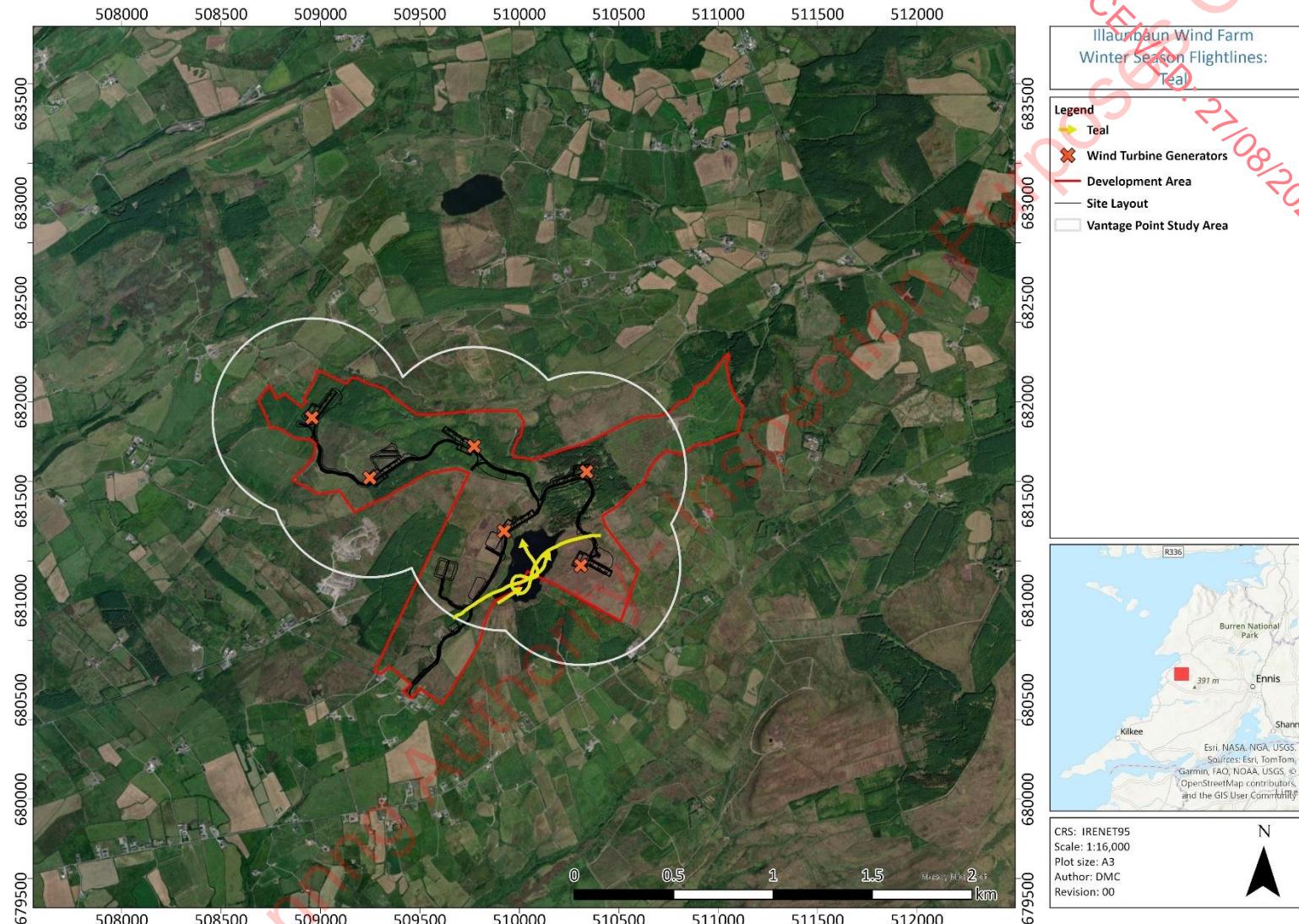


Figure 6.29: Illaunbaun Wind Farm winter season teal flightlines

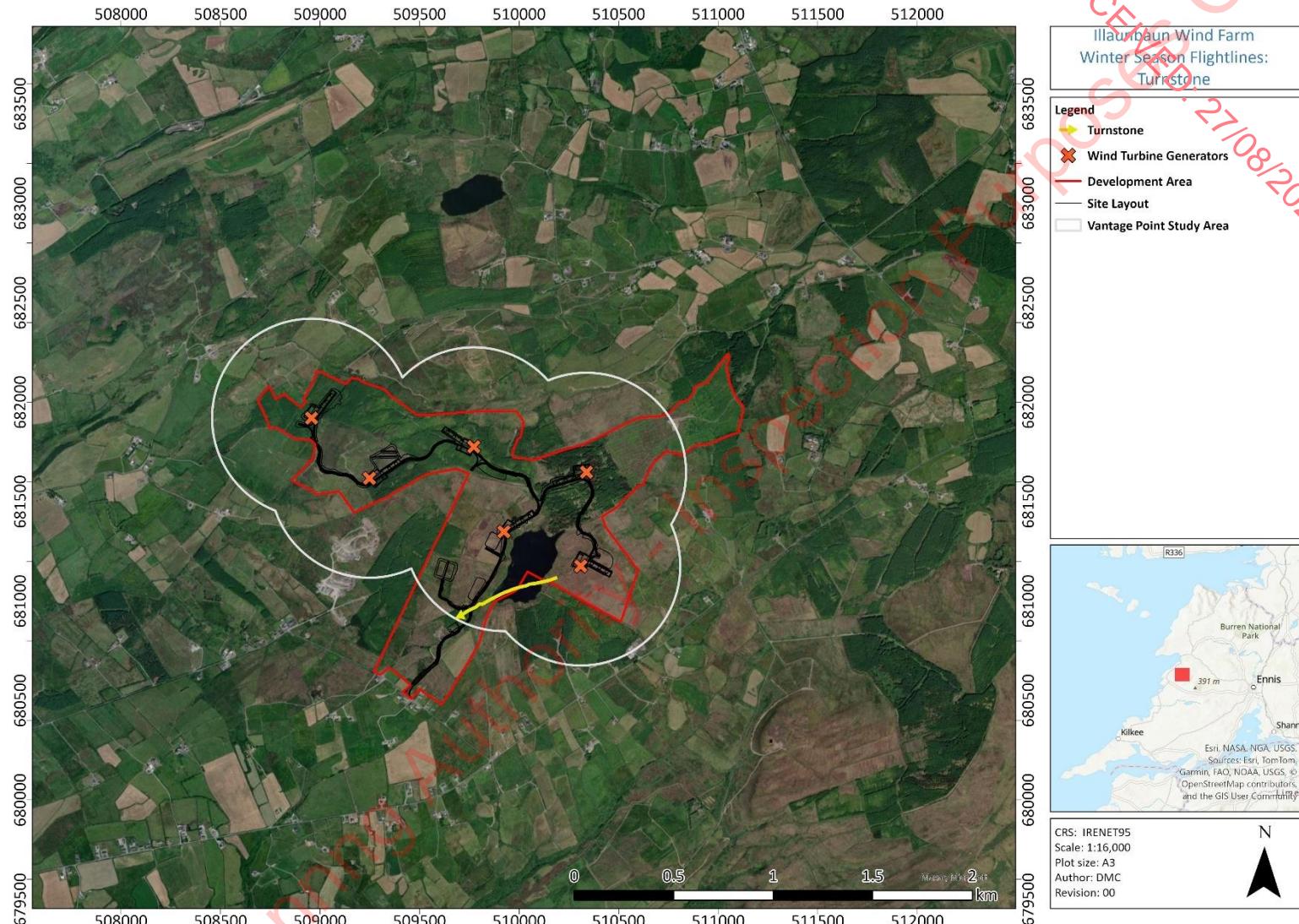


Figure 6.30: Illaunbaun Wind Farm winter season turnstone flightlines

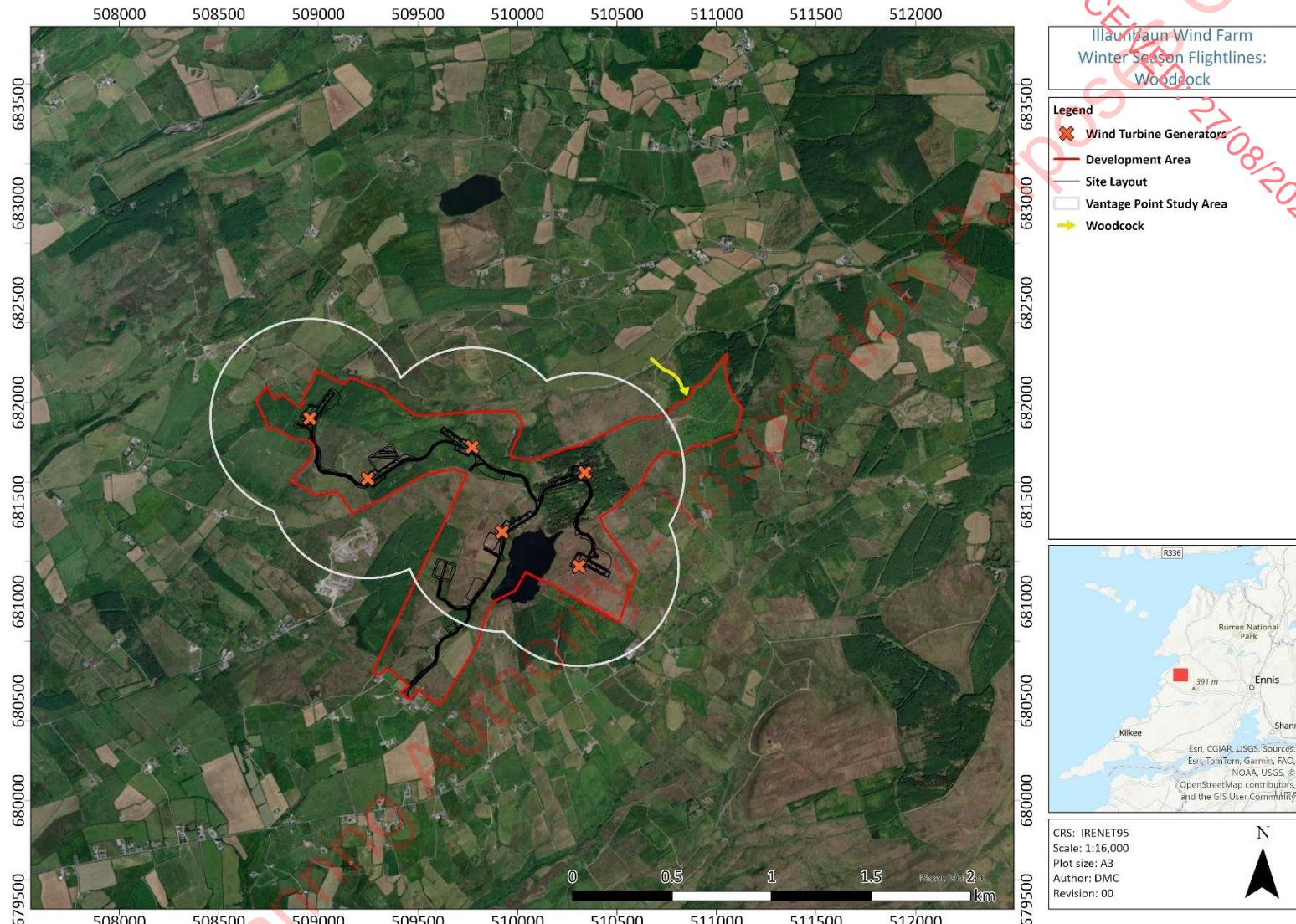


Figure 6.31: Illaunbaun Wind Farm winter season woodcock flightlines

7. I-WEBS RESULTS FIGURES

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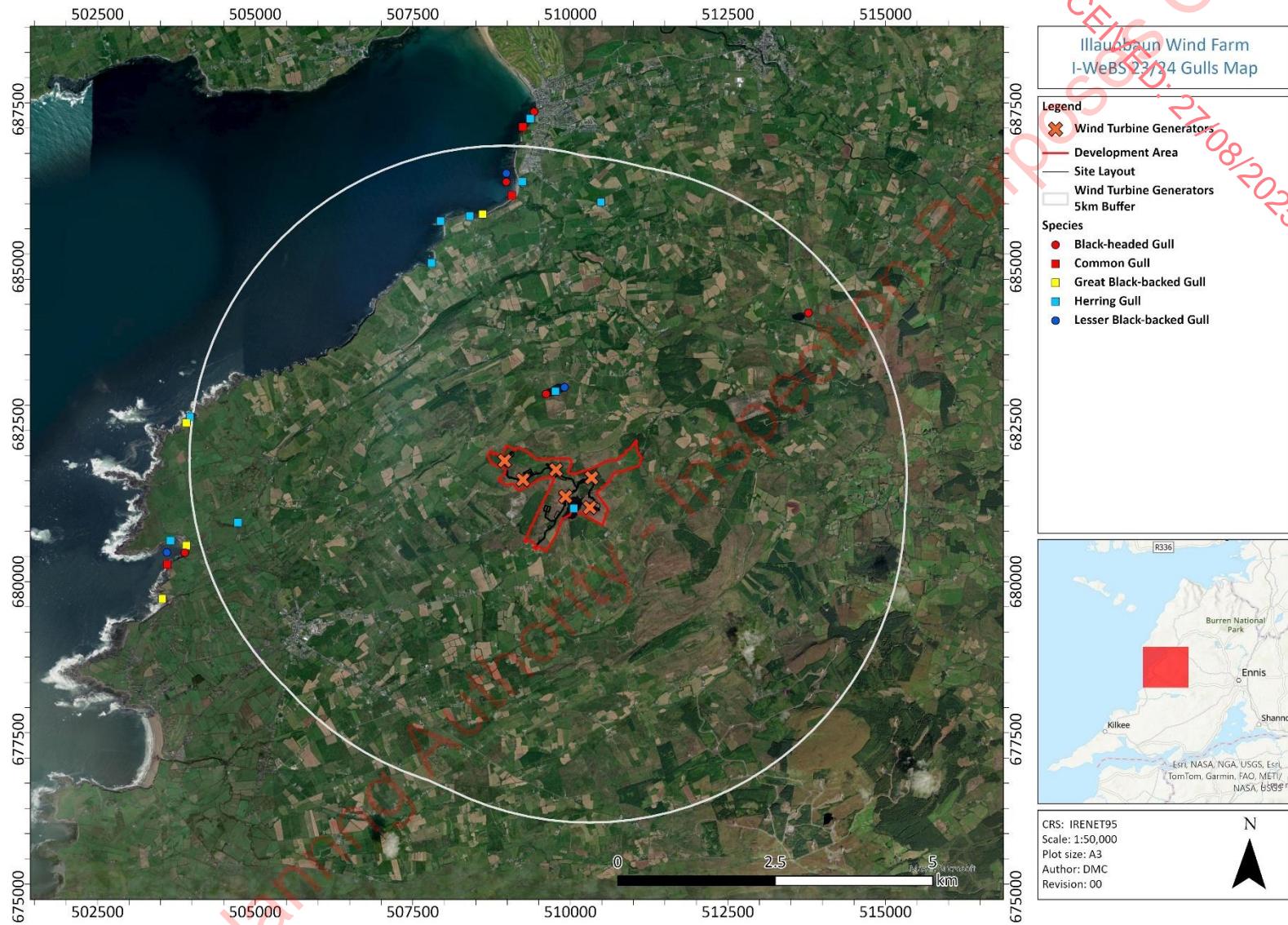


Figure 7.1: Illaunbaun Wind Farm I-WeBS gulls results 2023/2024

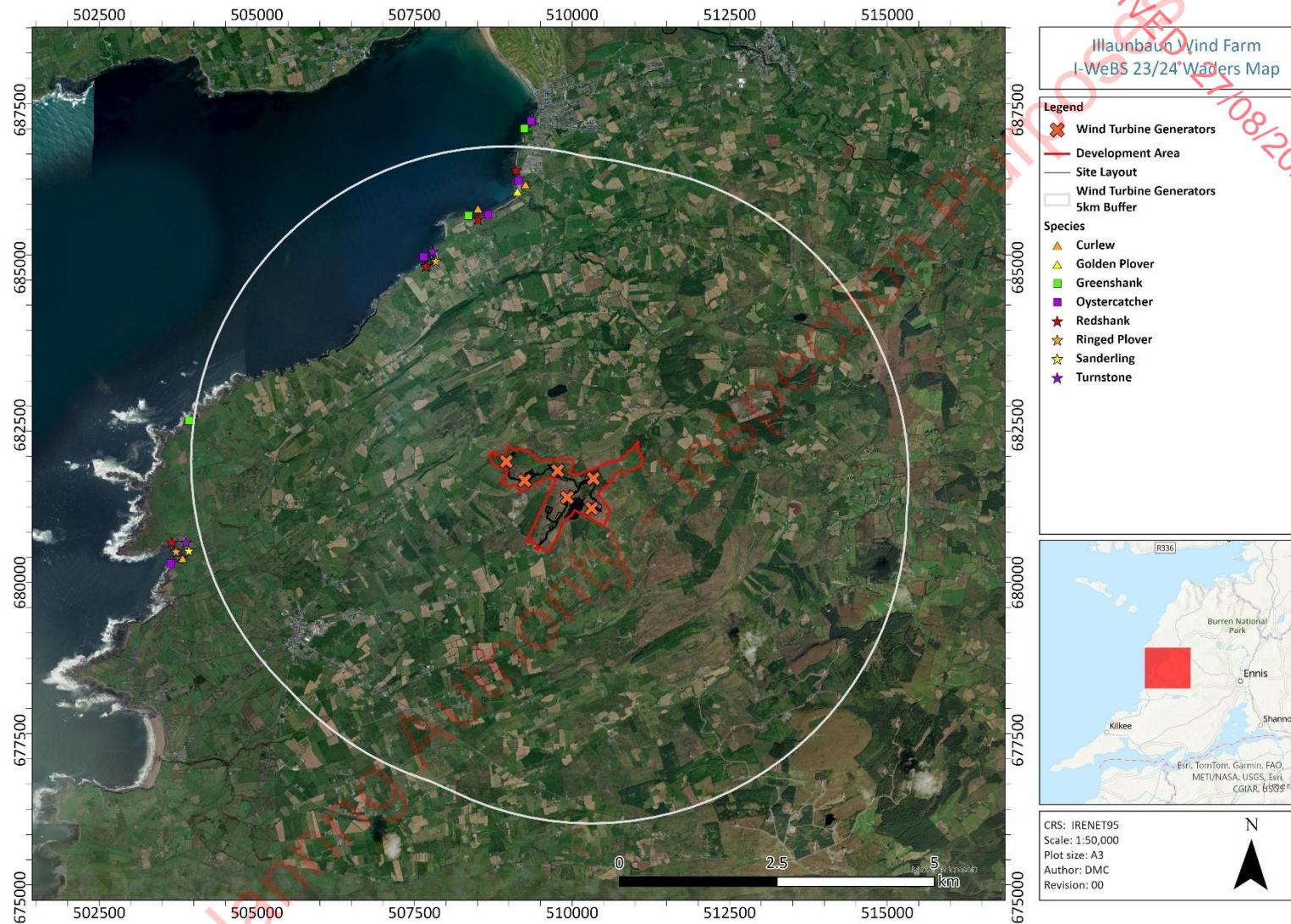


Figure 7.2: Illaunbaun Wind Farm I-WeBS waders results 2023/2024.

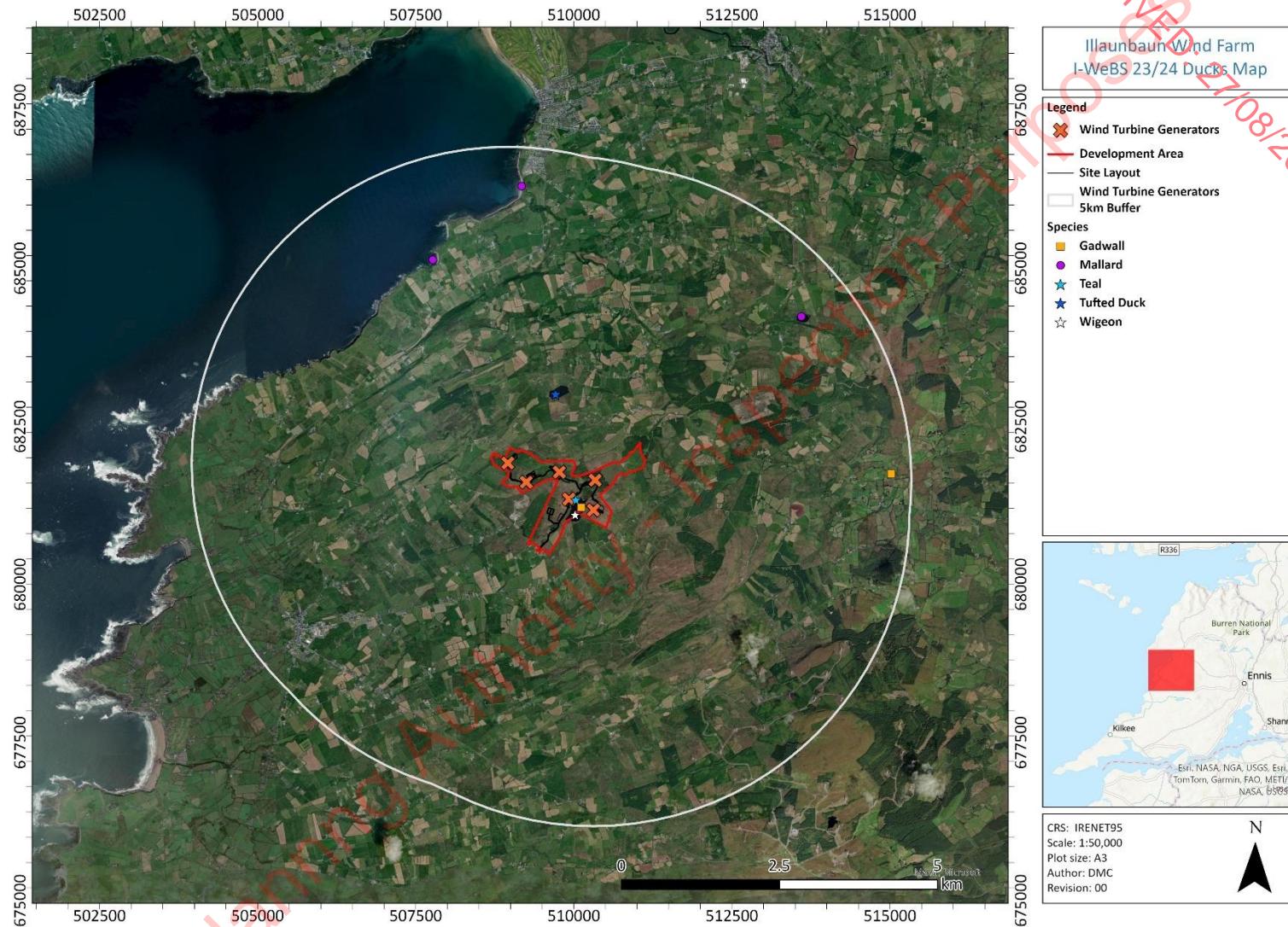


Figure 7.3: Illaunbaun Wind Farm I-WeBS ducks 2023/2024.

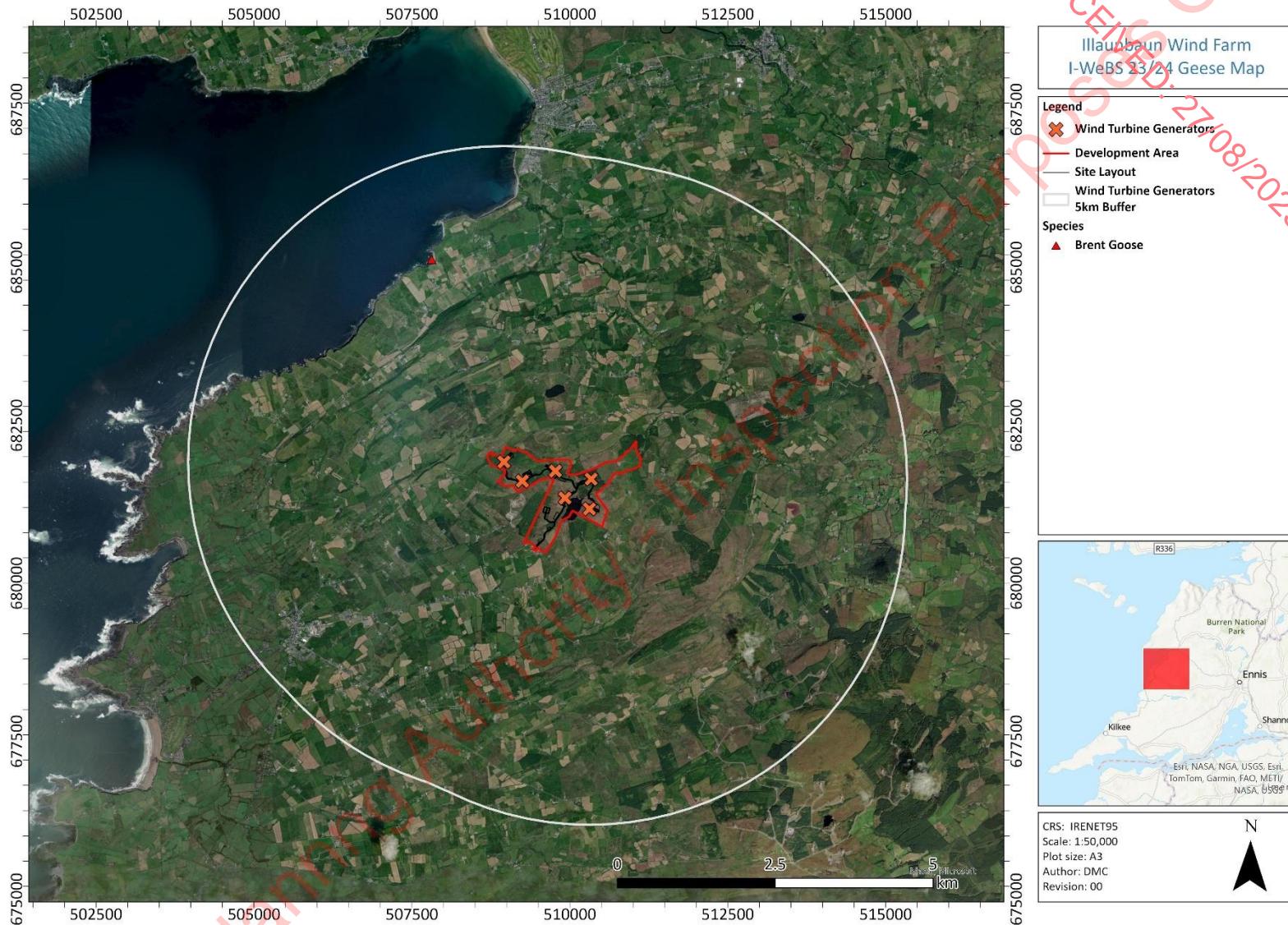


Figure 7.4: Illaunbaun Wind Farm I-WeBS geese and swans 2023/2024.

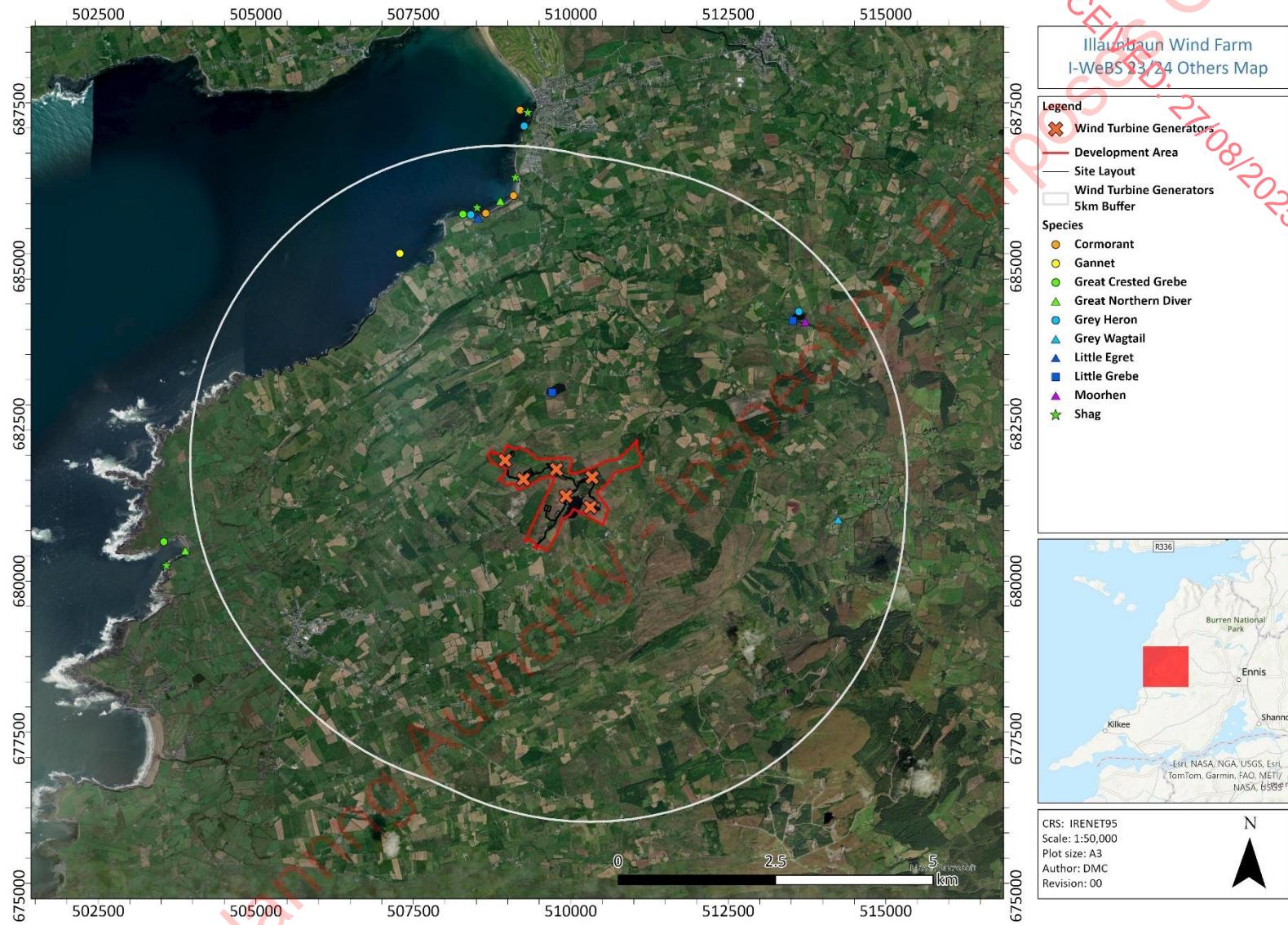


Figure 7.5: Illaunbaun Wind Farm I-WeBS other wetland and waterbirds 2023/2024.

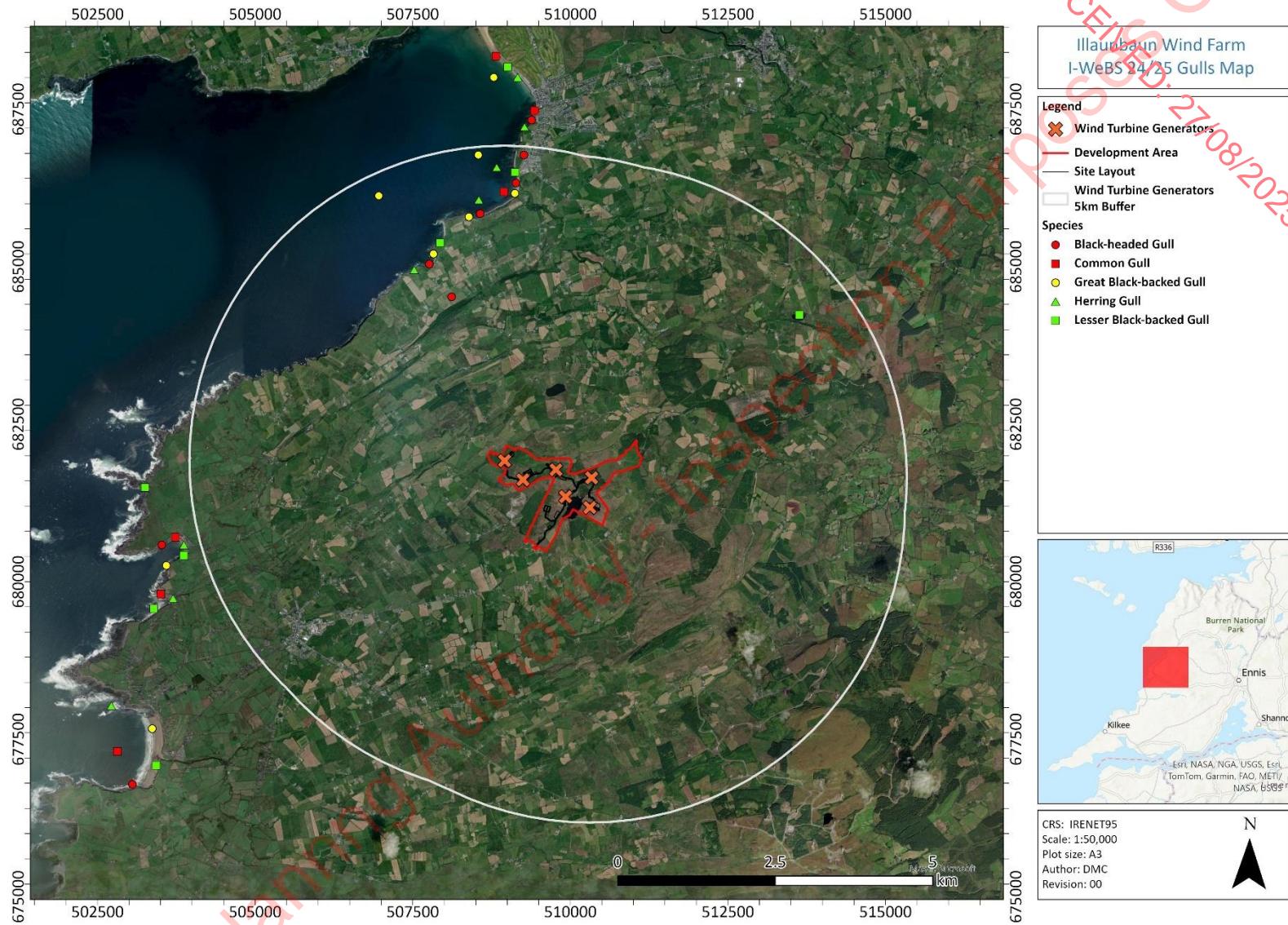


Figure 7.6: Illaunbaun Wind Farm I-WeBS gulls results 2024/2025.

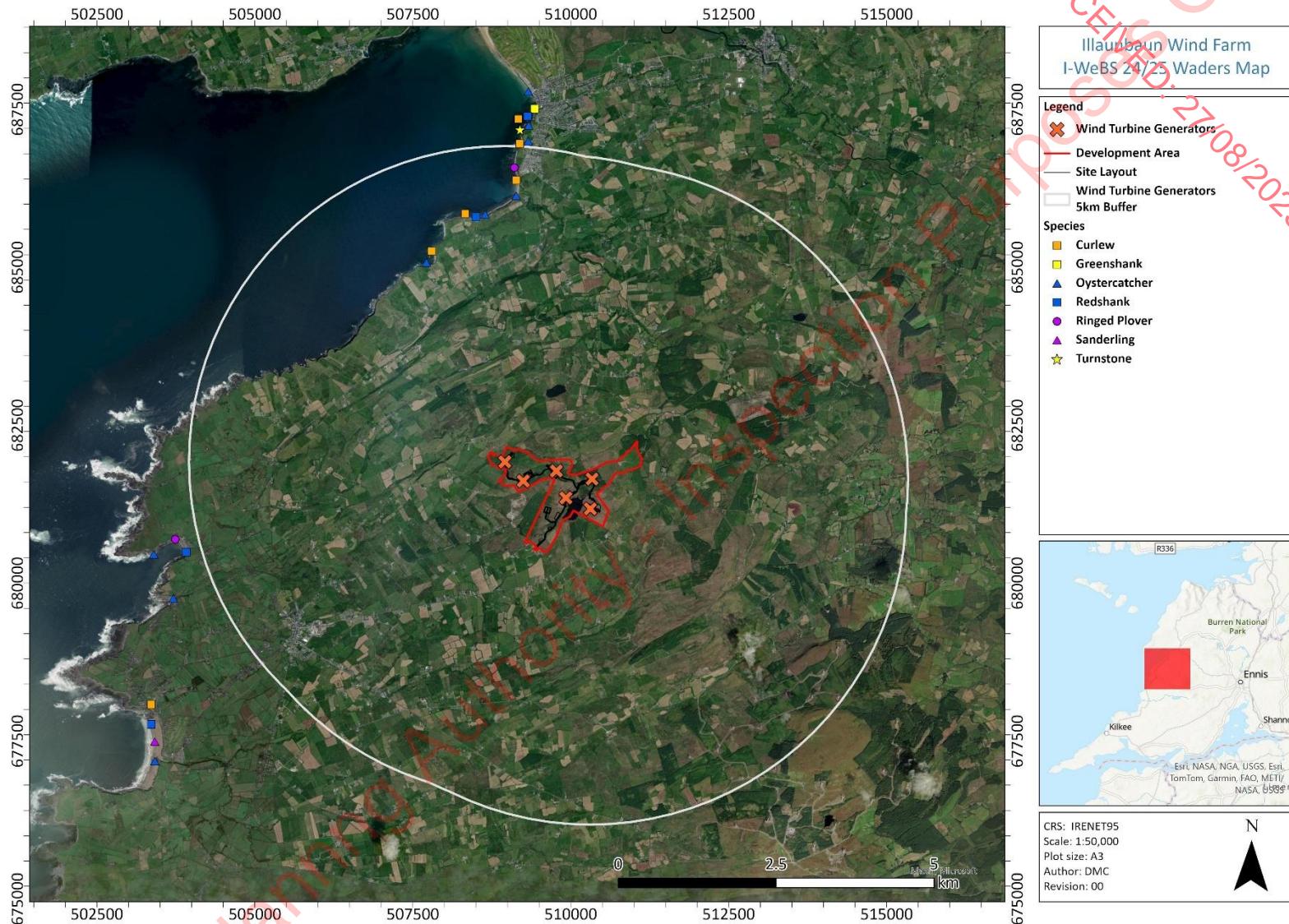


Figure 7.7: Illaunbaun Wind Farm I-WeBS waders results 2024/2025.

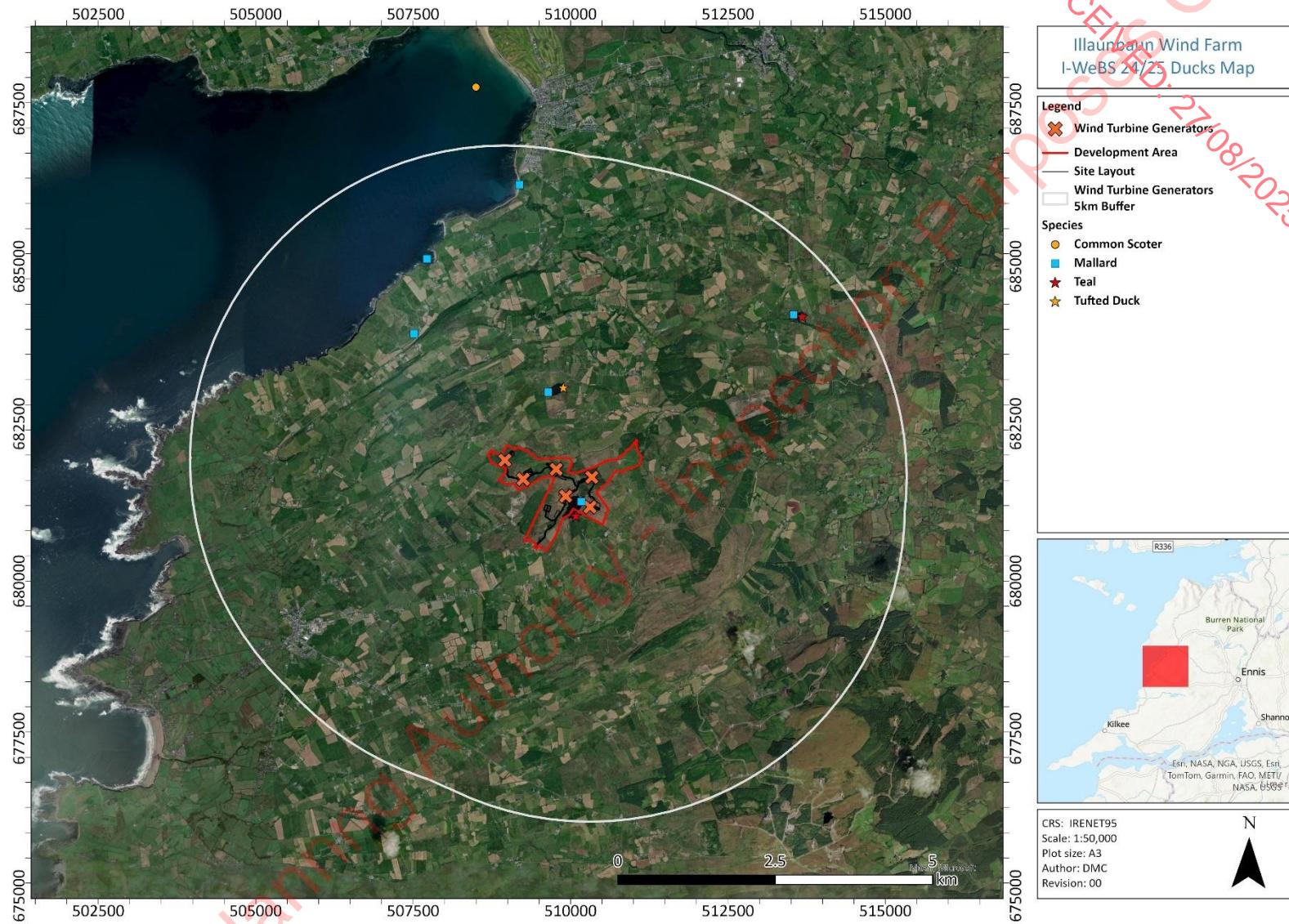


Figure 7.8: Illaunbaun Wind Farm I-WeBS ducks 2024/2025.

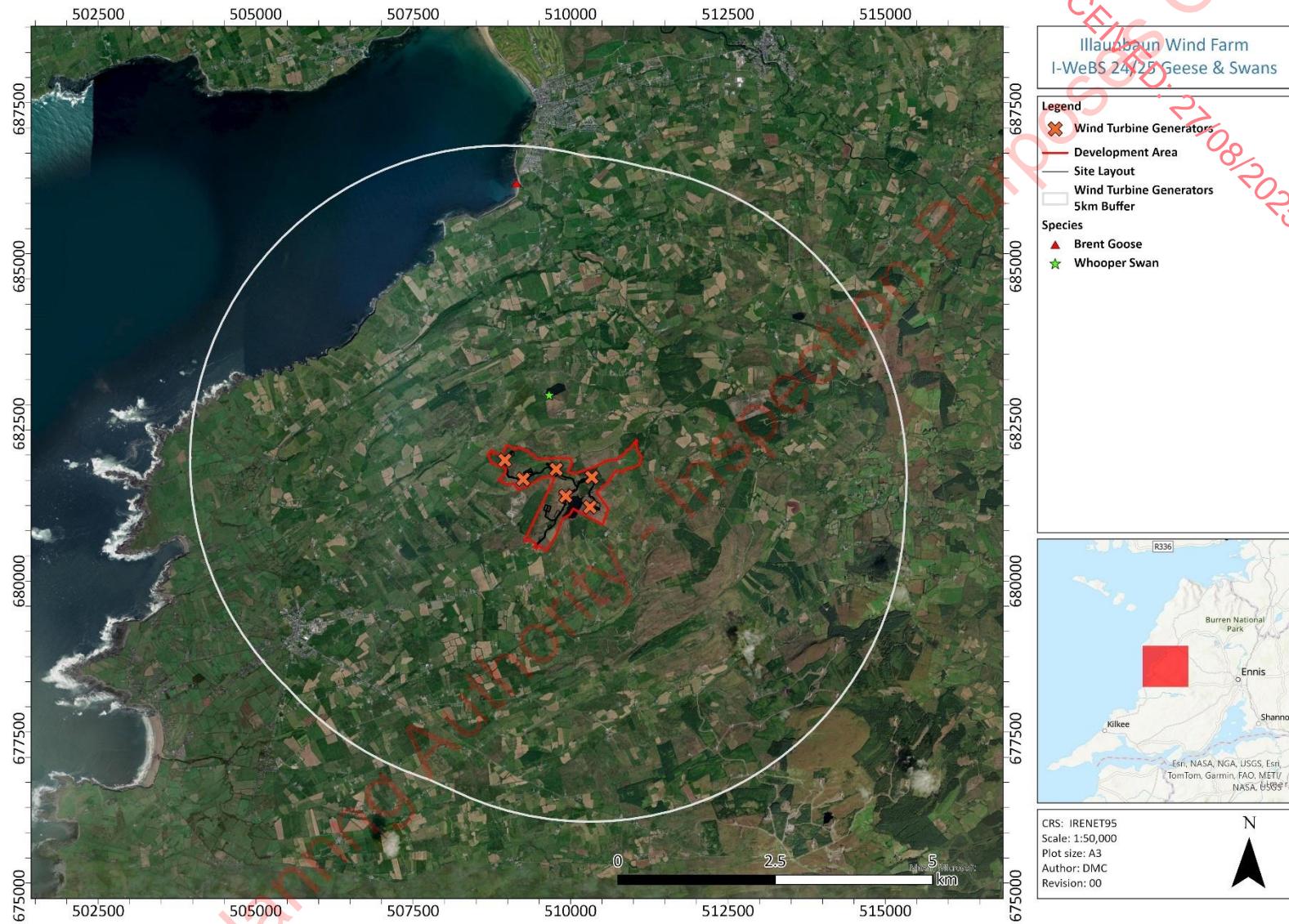


Figure 7.9: Illaunbaun Wind Farm I-WeBS geese and swans 2024/2025.

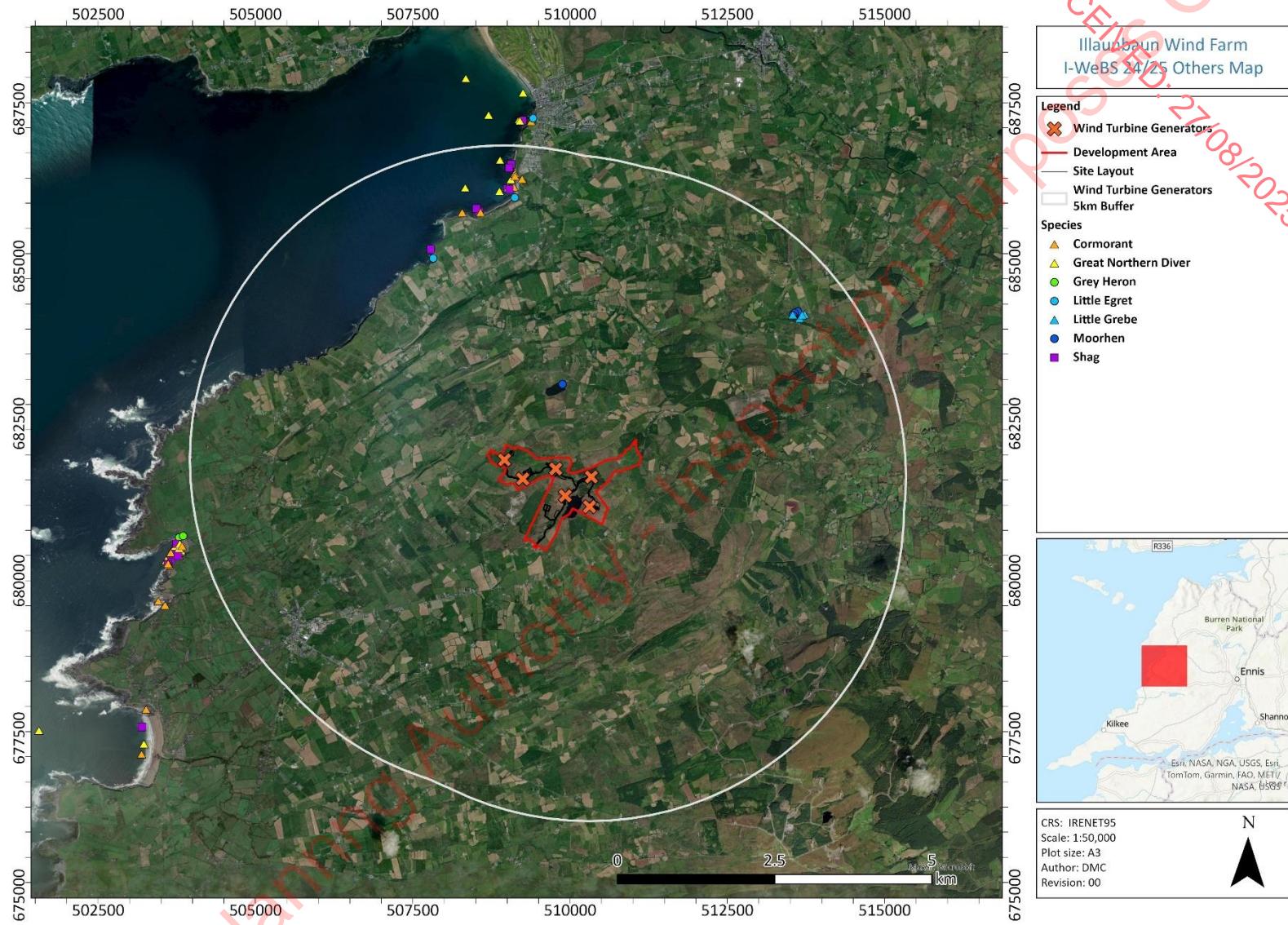


Figure 7.10: Illaunbaun Wind Farm I-WeBS other wetland and waterbirds 2024/2025.

ANNEX A VANTAGE POINT TABLES

Table A.1: Vantage Point Survey Effort and Weather Data – Breeding Season 2023.

VP Name	Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration (sec)	of survey
VP1	21/04/2023	EC	Dry	1/8	15	F3	NE	7	08:46	15:16	21600	
VP1	16/05/2023	EC	Dry	2/8	15	F1	NNE	10	08:40	15:10	21600	
VP1	19/07/2023	SID	None	5/8	16	F2	NW	16	11:15	17:45	21600	
VP1	27/07/2023	JOH	Drizzle	7/8	5	F3	WSW	18	10:30	13:30	10800	
VP1	27/07/2023	JOH	Drizzle	8/8	6	F5	W	19	14:00	17:00	10800	
VP1	30/08/2023	JOC	None	7/8	10	F2	NW	15	09:40	16:10	21600	
VP1	25/09/2023	EC	None	4/8	15	F3	SSW	10	08:57	15:27	10800	
VP2	25/04/2023	ML	Dry	3/8	15	F1	NE	-1	08:15	14:45	21600	
VP2	20/07/2023	SID	None	7/8	16	F2	NW	15	11:20	17:50	21600	
VP2	09/05/2023	EC	Occasional showers	4/8	15	F2	SW	11	08:07	14:38	21600	
VP2	19/07/2023	EC	None	5/8	15	F3	NW	18	10:53	13:53	10800	
VP2	19/07/2023	EC	None	4/8	15	F3	NW	18	14:23	17:23	10800	
VP2	31/08/2023	JOC	Occasional showers	8/8	10	F3	SW	17	09:05	16:35	21800	
VP2	10/10/2023	EC	None	4/8	15	F3	SW	13	10:01	13:01	10800	
VP2	11/10/2023	EC	Mist/light rain	4/8	8	F1	NW	13	09:20	12:20	10800	
VP3	15/05/2023	EC	Dry	3/8	15	F2	NW	11	09:23	15:53	21600	
VP3	02/06/2023	EC	None	1/8	15	F2	ESE	20	08:04	14:34	21600	

VP Name	Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
VP3	05/07/2023	EC	Occasional showers	5/8	15	F3	W	12	09:29	12:29	10800
VP3	17/07/2023	EC	Occasional showers	4/8	15	F3	WSW	18	12:39	15:39	10800
VP3	18/07/2023	EC	None	6/8	15	F2	E	16	11:17	14:17	10800
VP3	18/07/2023	EC	Occasional showers	3/8	15	F2	NW	17	14:47	17:47	10800
VP3	24/07/2023	HM	Dry	6/8	2	F3	NW	18	13:50	16:50	10800
VP3	26/07/2023	JOH	Persistent Rain	8/8	4	F4	S	18	11:25	14:25	10800
VP3	26/07/2023	JOH	Drizzle/rain	8/8	3	F5	S	17	14:55	17:55	10800
VP3	27/07/2023	NA	None	7/8	16	F3	W	16	10:20	13:20	10800
VP3	24/08/2023	JOH	Heavy Showers	8/8	8	F2	WSW	16	17:35	19:35	7200
VP3	06/09/2023	EM	None	6/8	15	F4	ESE	20	09:30	12:30	10800
VP3	06/09/2023	EM	None	5/8	15	F4	SSE	21	13:10	16:10	10800
VP3	12/09/2023	DMC	None	7/8	16	F2	NNW	16	10:00	12:00	7200
VP3	12/09/2023	DMC	None	6/8	16	F2	NNW	17	12:30	14:30	7200
VP3	26/09/2023	EC	None	3/8	15	F2	SW	13	08:57	15:27	21600
VP3	09/10/2023	EC	None	3/8	15	F2	ESE	13	08:36	11:36	10800
VP3	09/10/2023	EC	None	2/8	15	F2	ESE	20	12:20	15:20	10800

Table A.2: Vantage Point Survey Effort and Weather Data – Winter Season 2023/2024.

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (secs)
VP1	10/11/2023	EM	None	4/8	15	F4	WNW	11	09:55	12:55	10800
VP1	10/11/2023	EM	None	5/8	15	F4	WNW	10	14:15	17:15	10800
VP1	28/11/2023	SS	None	6/8	12	F1	NNE	3	08:30	11:30	10800
VP1	28/11/2023	SS	None	4/8	13	F1	SSW	9	12:00	15:00	10800
VP1	05/12/2023	EM	None	1/8	15	F1	ENE	-1	09:50	12:50	10800
VP1	05/12/2023	EM	None	2/8	15	F2	SE	4	13:30	16:30	10800
VP1	21/03/2024	VH	Persistent Rain	8/8	6	F5	SSW	10	08:30	11:30	10800
VP1	21/03/2024	VH	Drizzle/rain	8/8	8	F5	SSW	11	11:40	12:10	1800
VP1	25/03/2024	NA	Drizzle	8/8	10	F3	WSW	8	15:20	17:50	9000
VP1	27/03/2024	NA	None	6/8	16	F4	ESE	7	09:40	12:40	10800
VP1	27/03/2024	NA	None	8/8	14	F4	ESE	5	13:00	16:00	10800
VP2	07/11/2023	SS	None	5/8	12	F2	WNW	12	09:30	12:30	10800
VP2	07/11/2023	SS	None	4/8	14	F2	WSW	12	13:00	16:00	10800
VP2	23/11/2023	SS	Mist/light rain	8/8	5	F4	W	7	07:45	10:45	10800
VP2	23/11/2023	SS	None	8/8	5	F4	WNW	8	11:15	14:15	10800
VP2	27/12/2023	SS	Persistent Rain	6/8	5	F5	W	9	10:15	13:15	10800
VP2	27/12/2023	SS	Light Showers	8/8	5	F5	W	7	13:45	16:45	10800
VP2	20/03/2024	VH	None	1/8	20	F3	NNE	7	08:00	11:00	10800
VP2	20/03/2024	VH	None	5/8	20	F3	N	9	11:15	14:15	10800
VP2	28/03/2024	NA	None	2/8	16	F3	SE	4	08:25	11:25	10800

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (secs)
VP2	28/03/2024	NA	None	2/8	16	F3	SE	6	11:45	14:45	10800
VP3	06/11/2023	SS	Occasional showers	8/8	8	F3	W	6	09:30	12:30	10800
VP3	06/11/2023	SS	Occasional showers	8/8	8	F3	WNW	4	13:00	16:00	10800
VP3	09/11/2023	EM	Heavy Showers	8/8	10	F5	SSW	8	09:30	10:30	3600
VP3	21/11/2023	KS & SS	None	5/8	10	F2	NW	6	07:30	10:30	10800
VP3	21/11/2023	KS & SS	None	6/8	10	F1	NW	11	11:00	14:00	10800
VP3	29/11/2023	SS	None	7/8	5	F1	ENE	3	08:00	11:00	10800
VP3	29/11/2023	SS	None	6/8	12	F2	E	4	11:30	14:30	10800
VP3	04/12/2023	EM	None	1/8	15	F2	NNW	2	10:30	12:30	7200
VP3	04/12/2023	EM	None	2/8	15	F3	NNE	6	13:30	16:30	10800
VP3	19/12/2023	JOC	Occasional showers	6/8	10	F3	NW	8	10:10	13:10	10800
VP3	19/12/2023	JOC	Occasional showers	6/8	10	F3	NW	8	13:40	16:40	10800
VP3	20/12/2023	JOC	Occasional showers	8/8	5	F3	W	10	09:20	12:20	10800
VP3	28/12/2023	SS	None	8/8	8	F4	SSW	8	09:10	12:10	10800
VP3	11/03/2024	SS	Persistent Rain	8/8	12	F2	SSW	9	14:30	17:30	10800
VP3	11/03/2024	SS	None	8/8	12	F2	SW	8	11:00	14:00	10800
VP3	19/03/2024	SS	Drizzle	8/8	10	F2	WSW	13	10:15	13:15	10800
VP3	19/03/2024	SS	None	8/8	10	F1	NW	12	13:45	16:45	10800

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (secs)
VP3	22/03/2024	VH	Occasional showers	4/8	15	F4	NW	8	07:05	10:05	10800
VP3	22/03/2024	VH	Occasional showers	6/8	15	F4	NW	8	10:20	13:20	10800
VP3	26/03/2024	NA	Persistent Rain	8/8	10	F3	NNE	7	11:25	13:25	7200
VP3	26/03/2024	NA	Drizzle	8/8	4	F3	NE	7	13:40	16:40	10800
VP3	26/03/2024	NA	None	6/8	16	F3	NE	7	16:55	17:55	3600

Table A.3: Vantage Point Survey Effort and Weather Data – Breeding Season 2024.

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (secs)
VP1	16/05/2024	EC	None	3/8	20	F2	N	18	10:30	13:30	10800
VP1	16/05/2024	EC	None	3/8	20	F2	N	18	14:00	17:00	10800
VP1	20/05/2024	EC	None	4/8	19	F2	SW	22	14:22	17:22	10800
VP1	23/05/2024	KS	None	7/8	26	F3	NW	9	07:20	10:20	10800
VP1	05/06/2024	EC	None	3/8	25	F3	WNW	13	15:57	17:57	7200
VP1	05/06/2024	EC	None	3/8	25	F3	WNW	13	17:57	19:57	7200
VP1	07/06/2024	EC	Heavy Showers	4/8	20	F3	WNW	13	11:52	13:52	7200
VP1	12/07/2024	NL	Occasional showers	8/8	6	F2	NW	16	14:35	17:35	10800
VP1	12/07/2024	NL	Occasional showers	8/8	6	F2	NW	16	18:05	19:05	3600
VP1	24/07/2024	NL	Drizzle/rain	8/8	2	F2	SSE	19	12:30	14:30	7200
VP1	12/08/2024	NA	None	4/8	16	F5	SW	17	11:50	14:50	10800

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (secs)
VP1	12/08/2024	NA	None	5/8	16	F4	SW	20	15:20	18:20	10800
VP1	20/08/2024	SS	Occasional showers	8/8	8	F4	W	16	11:50	14:50	10800
VP1	20/08/2024	SS	Occasional showers	6/8	10	F4	W	15	15:20	18:20	10800
VP1	20/09/2024	NA	None	2/8	12	F3	NE	19	12:20	15:20	10800
VP1	20/09/2024	NA	None	0/8	10	F3	NE	23	15:50	18:50	10800
VP2	08/05/2024	NL	None	2/8	5	F1	SSW	15	18:20	20:20	7200
VP2	09/05/2024	NL	None	5/8	7	F2	S	15	14:30	16:30	7200
VP2	09/05/2024	NL	None	5/8	7	F2	S	16	12:20	14:20	7200
VP2	14/05/2024	EC	Occasional showers	4/8	15	F2	N	14	12:27	14:27	7200
VP2	14/05/2024	EC	Heavy Showers	3/8	15	F2	N	14	14:57	16:57	7200
VP2	20/05/2024	EC	None	2/8	25	F2	S	18	09:13	11:13	7200
VP2	04/06/2024	HM	None	4/8	3	F4	NW	14	17:35	20:35	10800
VP2	17/06/2024	EC	Mist/light rain	6/8	15	F2	N	14	10:12	13:12	10800
VP2	09/07/2024	NL	None	8/8	8	F3	NE	16	11:30	13:30	7200
VP2	09/07/2024	NL	Occasional showers	8/8	8	F3	NE	15	13:40	15:40	7200
VP2	13/08/2024	NA	Drizzle	8/8	3	F4	SW	16	09:35	12:35	10800
VP2	13/08/2024	NA	None	6/8	7	F5	NW	16	13:05	16:05	10800
VP2	24/07/2024	KS	Drizzle	8/8	24	F4	WSW	20	16:45	17:45	3600
VP2	25/07/2024	KS	Single shower	8/8	24	F4	WSW	15	15:55	16:55	3600
VP2	21/08/2024	SS	Single shower	8/8	10	F4	SW	17	11:10	14:10	10800

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (secs)
VP2	21/08/2024	SS	Single shower	8/8	10	F4	SW	17	14:40	17:40	10800
VP2	18/09/2024	NA	None	0/8	15	F2	ESE	18	12:55	15:55	10800
VP2	18/09/2024	NA	None	0/8	15	F2	SE	21	16:25	19:25	10800
VP3	23/04/2024	KS	Drizzle	8/8	18	F2	N	11	08:46	11:46	10800
VP3	07/05/2024	NL	None	7/8	6	F2	SSW	14	17:30	19:30	7200
VP3	17/05/2024	EC	Mist/light rain	4/8	19	F3	N	15	09:44	12:44	10800
VP3	23/05/2024	KS	None	8/8	26	F3	NNW	12	10:30	12:30	7200
VP3	23/05/2024	EC	None	4/8	20	F3	NW	11	15:01	17:01	7200
VP3	17/06/2024	NL	None	8/8	6	F2	NW	17	18:05	21:05	10800
VP3	18/06/2024	EC	None	4/8	25	F3	N	16	13:31	16:31	10800
VP3	05/07/2024	KS	Light Showers	8/8	23	F2	W	14	09:55	12:55	10800
VP3	05/07/2024	KS	Occasional showers	8/8	24	F2	WSW	14	13:25	16:25	10800
VP3	15/07/2024	DMC	None	6/8	16	F2	E	16	09:40	12:40	10800
VP3	15/07/2024	DMC	Single shower	8/8	16	F2	E	17	13:10	16:10	10800
VP3	22/07/2024	DMC	Drizzle	8/8	16	F2	W	15	09:40	12:40	10800
VP3	22/07/2024	DMC	None	8/8	16	F2	W	18	13:10	16:10	10800
VP3	26/07/2024	EM	None	5/8	20	F4	SW	16	12:10	15:10	10800
VP3	26/07/2024	EM	None	3/8	20	F4	SW	17	15:40	18:40	10800
VP3	01/08/2024	KS	None	8/8	24	F4	SW	18	13:04	16:04	10800
VP3	01/08/2024	KS	None	7/8	24	F3	WSW	18	16:34	19:34	10800

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (secs)
VP3	07/08/2024	KS	Mist/light rain	8/8	8	F3	WSW	15	17:25	18:30	3600
VP3	09/08/2024	KS	None	6/8	16	F5	WSW	17	09:57	11:57	7200
VP3	09/08/2024	KS	None	6/8	24	F4	WSW	18	12:27	15:22	10800
VP3	29/08/2024	KS	None	6/8	21	F4	WSW	15	09:45	12:45	10800
VP3	29/08/2024	KS	None	6/8	24	F4	W	17	13:15	16:15	10800

Table A.4: Vantage Point Survey Effort and Weather Data – Winter Season 2024/2025.

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of Survey(sec)
VP1	23/10/2024	JOC	None	5/8	10	F3	S	12	10:20	13:20	10800
VP1	23/10/2024	JOC	None	7/8	10	F3	S	14	13:50	16:50	10800
VP1	11/12/2024	HM	None	8/8	3	F1	SW	4	10:15	13:15	10800
VP1	11/12/2024	HM	None	8/8	3	F1	SW	3	13:45	16:45	10800
VP1	31/12/2024	JOH	Moderate rain	8/8	3	F4	S	8	11:30	13:30	7200
VP1	17/01/2025	JOC	None	6/8	10	F3	S	10	09:30	11:30	7200
VP1	17/01/2025	JOC	None	6/8	10	F3	S	11	12:00	14:00	7200
VP1	31/01/2025	JOC	None	3/8	10	F2	S	8	10:30	12:30	7200
VP1	31/01/2025	JOC	None	3/8	10	F2	S	9	13:00	15:00	7200
VP1	11/02/2025	NL	None	7/8	5	F3	E	6	12:50	14:50	7200
VP1	12/02/2025	NL	None	8/8	4	F4	ESE	6	10:10	13:10	10800
VP1	14/02/2025	NL	None	8/8	5	F3	SE	8	10:40	13:40	10800
VP1	26/03/2025	NC	None	8/8	14	F2	SSE	8	08:10	11:10	10800
VP1	26/03/2025	NC	None	8/8	13	F3	SSW	12	11:40	14:40	10800
VP1	20/09/2024	NA	None	2/8	19	F3	NE	12	12:20	15:20	10800
VP1	20/09/2024	NA	None	0/8	23	F3	NE	10	15:50	18:50	10800
VP2	24/10/2024	HM	None	8/8	2	F4	SW	17	13:30	16:30	10800
VP2	06/11/2024	HM	None	5/8	5	F4	SW	15	10:00	13:00	10800
VP2	11/11/2024	HM	None	8/8	3	F2	SW	2	09:55	12:55	10800

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of Survey(sec)
VP2	11/11/2024	HM	None	8/8	3	F2	SW	10	13:25	16:25	10800
VP2	12/12/2024	HM	None	8/8	3	F1	E	3	09:15	12:15	10800
VP2	12/12/2024	HM	None	8/8	3	F1	E	3	12:45	15:45	10800
VP2	16/01/2025	NA	None	3/8	16	F3	SE	9	10:15	13:15	10800
VP2	30/01/2025	HM	Occasional showers	8/8	3	F2	SSW	5	11:00	14:00	10800
VP2	14/02/2025	NL	None	6/8	8	F2	SE	8	13:59	16:59	10800
VP2	07/03/2025	JOC	Occasional showers	8/8	5	F3	SE	9	10:05	13:05	10800
VP2	21/03/2025	HM	None	7/8	4	F4	SE	10	08:40	11:40	10800
VP2	01/04/2025	NC	None	5/8	20	F4	SE	14	13:00	14:00	3600
VP2	01/04/2025	NC	None	5/8	20	F4	SE	14	14:20	16:20	7200
VP3	24/10/2024	JOC	None	8/8	10	F3	SE	15	14:25	17:25	10800
VP3	25/10/2024	HM	None	7/8	2	F3	SW	8	08:35	11:35	10800
VP3	07/11/2024	HM	None	8/8	4	F4	SW	15	13:00	16:00	10800
VP3	10/12/2024	NC	None	1/8	20	F2	ENE	2	10:20	13:20	10800
VP3	13/12/2024	HM	None	8/8	5	F1	W	2	09:15	12:15	10800
VP3	20/12/2024	HM	Moderate rain	8/8	2	F5	W	9	09:05	12:05	10800
VP3	16/01/2025	JOC	None	6/8	5	F3	S	9	10:40	13:40	10800
VP3	31/01/2025	NA	None	1/8	16	F1	S	7	10:45	13:45	10800
VP3	13/02/2025	NL	None	8/8	3	F4	ESE	6	10:30	13:30	10800

VP Name	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of Survey(sec)
VP3	13/02/2025	NL	Moderate rain	8/8	2	F4	ESE	6	14:05	17:05	10800
VP3	27/03/2025	NC	None	8/8	14	F4	SSW	10	08:00	11:00	10800
VP3	27/03/2025	NC	None	8/8	10	F4	SW	12	11:30	14:30	10800
VP3	09/09/2024	NA	None	4/8	14	F3	WSW	12	11:00	14:00	10800
VP3	09/09/2024	NA	None	8/8	16	F3	W	10	14:30	17:30	10800
VP3	16/09/2024	NL	None	6/8	19	F2	SE	8	12:00	15:00	10800
VP3	16/09/2024	NL	None	6/8	23	F2	SSE	8	15:30	18:30	10800
VP3	30/09/2024	EC	None	4/8	15	F3	WNW	25	12:35	13:35	3600
VP3	03/09/2024	JOH	Occasional showers	7/8	16	F3	WNW	15	12:00	15:00	10800
VP3	03/09/2024	JOH	Heavy Showers	6/8	18	F3	WNW	15	15:30	18:30	10800
VP3	19/09/2024	NA	None	1/8	14	F3	E	8	11:45	13:45	10800
VP3	19/09/2024	NA	None	1/8	20	F3	NE	7	14:15	17:15	10800

Table A.5: Breeding season 2023 Results.

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total (s)	Duration	Bird Notes
VP1	21/04/2023	Nil Sightings											
VP2	25/04/2023	Whimbrel	1	20							20		1 Whimbrel flying over grassland.
VP1	16/05/2023	Nil Sightings											
VP2	09/05/2023	Nil Sightings	0										
VP3	15/05/2023	Nil Sightings											
VP3	02/06/2023	Nil Sightings											
VP1	19/07/2023	Herring Gull	1	30							30		
VP1	19/07/2023	Kestrel	1	60							60		
VP1	19/07/2023	Kestrel	1	350							350		
VP1	19/07/2023	Kestrel	1	240							240		Kestrel perched on fence and consuming prey
VP1	19/07/2023	Kestrel	1	60							60		
VP2	20/07/2023	Mallard	10	80							80		
VP2	20/07/2023	Herring Gull	2	100							100		
VP3	05/07/2023	Nil Sightings											
VP3	27/07/2023	Lesser Black-backed Gull	2				30				30		
VP3	27/07/2023	Herring Gull	1					15			15		
VP3	27/07/2023	Lesser Black-backed Gull	5					30	60		90		

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total (s)	Duration	Bird Notes
VP3	27/07/2023	Herring Gull	1			15	10				25		
VP3	27/07/2023	Lesser Black-backed Gull	1		5	10					15		
VP3	27/07/2023	Lesser Black-backed Gull	3			30	40				70		
VP3	27/07/2023	Lesser Black-backed Gull	2				50				50		
VP3	27/07/2023	Lesser Black-backed Gull	10			100	40	40			180		
VP3	27/07/2023	Lesser Black-backed Gull	12		40	30	60	30			160		
VP3	27/07/2023	Lesser Black-backed Gull	16			10	30	50	50		140		
VP3	27/07/2023	Kestrel	1	15	60	30					105		
VP3	27/07/2023	Kestrel	1	2	3	25					30		
VP3	26/07/2023	Kestrel	1			20	160	30			210		Female K hovering/hunting over G and NF2.
VP3	26/07/2023	Nil Sightings											
VP1	27/07/2023	Hen Harrier	1		10	20					30		Male HH flying over forestry and HB heading S.
VP1	27/07/2023	Great Black-backed Gull	3			10	40				50		3GBs flying west over lake, over the bog and out of sight.

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total (s)	Duration	Bird Notes
VP1	27/07/2023	Great Black-backed Gull	1				60				60		1GBs flying west over lake, over the bog and out of sight.
VP1	27/07/2023	Lesser Black-backed Gull	12	20	100	170	400				690		12 LBs flocking over lake and landing on the water. Land on water for 100secs before flying S. Mix of juvenile and adults.
VP1	27/07/2023	Lesser Black-backed Gull	15			20					20		10 juv and 5 adult LBs flying W.
VP1	27/07/2023	Herring Gull	1				30				30		HG flyin over HB and FW.
VP1	27/07/2023	Kestrel	2		10	30	330	180			550		Female K flying and hovering/hunting over FW and HB. 2nd K appears (seems to be a female or juvenile) at 15:38 and both fly in same direction. 1st K hovers and flies over NF3 until 15:43 then flies N over HB.
VP2	19/07/2023	Nil Sightings											
VP2	19/07/2023	Nil Sightings											
VP3	17/07/2023	Nil Sightings											

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total (s)	Duration	Bird Notes
VP3	24/07/2023	Lesser Black-backed Gull	1			10					10		
VP3	24/07/2023	Herring Gull	2			30					30		
VP3	24/07/2023	Lesser Black-backed Gull	3			30					30		
VP3	24/07/2023	Kestrel	1				60				60		
VP3	24/07/2023	Kestrel	1			60					60		
VP3	24/07/2023	Herring Gull	1			15					15		
VP3	24/07/2023	Lesser Black-backed Gull	1			10					10		
VP3	24/07/2023	Lesser Black-backed Gull	1	5	5						10		
VP3	24/07/2023	Hen Harrier	1	180				120			300		
VP3	18/07/2023	Nil Sightings											
VP3	18/07/2023	Nil Sightings											
VP3	18/07/2023	Kestrel	1		30						30		
VP3	18/07/2023	Kestrel	1		20						20		
VP3	18/07/2023	Kestrel	1	30		90					120		
VP1	30/08/2023	Lesser Black-backed Gull	1	20							20		
VP1	30/08/2023	Raven	3			60	15	15			90		
VP1	30/08/2023	Hen Harrier	1	15							15	Quartering	
VP1	30/08/2023	Hen Harrier	1	115							115	Quartering	

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Appendix A08-03: Ornithology Baseline

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total (s)	Duration	Bird Notes
VP1	30/08/2023	Hen Harrier	1	35	55						90		
VP1	30/08/2023	Hen Harrier	1	35							35		
VP1	30/08/2023	Snipe	1	10	15						25		Snipe dropped to ground at end of bout.
VP1	30/08/2023	Kestrel	1		15						15		
VP2	31/08/2023	Kestrel	1	20							20		
VP2	31/08/2023	Hen Harrier	1	25	25						50		
VP2	31/08/2023	Raven	1			20	15	25			60		
VP2	31/08/2023	Kestrel	1	25							25		
VP2	31/08/2023	Kestrel	1			40	90				130		
VP3	06/09/2023	Lesser Black-backed Gull	1			10	30	10			50		
VP3	06/09/2023	Kestrel	1	10	10	60	60	40			180		
VP3	06/09/2023	Kestrel	1			10	20				30		
VP3	06/09/2023	Kestrel	1		10	40					50		
VP3	06/09/2023	Sparrowhawk	1	5	5	20	30	10	20		90		
VP3	06/09/2023	Hen Harrier	1	5	5						10		
VP3	06/09/2023	Kestrel	1		10	30					40		
VP3	06/09/2023	Kestrel	1	20	20	60	120	20			240		Kestrel and Sparrowhawk same flight band as interacting with each

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total (s)	Duration	Bird Notes
													other, chasing and diving
VP3	06/09/2023	Sparrowhawk	1			10					10		Interacting with Kestrel
VP3	06/09/2023	Hen Harrier	1	20	50	10					80		Hen Harrier hunting and landed in heath
VP3	24/08/2023	Hen Harrier	1		70						70		Male HH flying SW over HB against rain.
VP3	12/09/2023	Kestrel	1		2	18	100				120		
VP3	12/09/2023	Raven	1		10	20	60				90		
VP3	12/09/2023	Kestrel	1		5	10	5				20		
VP3	12/09/2023	Sparrowhawk	1				20	60	100		180		
VP3	12/09/2023	Kestrel	1	5	15	280					300		
VP3	12/09/2023	Kestrel	1	2	8	10					20		
VP1	25/09/2023	Nil Sightings											
VP1	25/09/2023	Nil Sightings											
VP2	10/10/2023	Nil Sightings											
VP2	11/10/2023	Nil Sightings											
VP2	11/10/2023	Kestrel	1	60						60			
VP2	11/10/2023	Kestrel	1	30						30	Kestrel being mobbed by two hooded crows		
VP3	26/09/2023	Nil Sightings											

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	Total (s)	Duration	Bird Notes
VP3	09/10/2023	Nil Sightings										
VP3	09/10/2023	Nil Sightings										

Table A.6: Winter season 2023/2024 Results.

VP Name	Date	Species	Number	< 10m	10-20m	20-30m	30-40m	40-50m	50-200m	> 200m	Total Duration (s)
VP1	10/11/2023	Kestrel	1			5	10				15
VP1	10/11/2023	Herring Gull	1					20			20
VP1	10/11/2023	Teal	5		15	10					25
VP1	10/11/2023	Turnstone	4			5	5				10
VP1	10/11/2023	Kestrel	1			30	90	30			150
VP2	07/11/2023	Herring Gull	1		60						60
VP2	07/11/2023	Kestrel	1	40							40
VP2	07/11/2023	Kestrel	1	80							80
VP2	07/11/2023	Kestrel	1	20	60						80
VP2	07/11/2023	Kestrel	1	20	130						150
VP3	06/11/2023	Mallard	1		55	50					105
VP3	06/11/2023	Golden Plover	30		45	50					95
VP3	06/11/2023	Kestrel	1	100	150	200					450
VP3	09/11/2023	Herring Gull	1			10	10				20

VP Name	Date	Species	Number	< 10m	10-20m	20-30m	30-40m	40-50m	50-200m	> 200m	Total Duration (s)
VP3	04/12/2023	Snipe	2				30	20	30		80
VP3	04/12/2023	Sparrowhawk	1			15					15
VP1	28/11/2023	Teal	8	15							15
VP1	28/11/2023	Mallard	2	25							25
VP1	28/11/2023	Mallard	2		10	60					70
VP1	28/11/2023	Kestrel	1	10	50						60
VP1	28/11/2023	Kestrel	1	10	50						60
VP2	23/11/2023	Woodcock	1	45							45
VP2	23/11/2023	Hen Harrier	1	40							40
VP3	29/11/2023	Nil Sightings									
VP3	29/11/2023	Kestrel	1		40	20					60
VP3	21/11/2023	Hen Harrier	1	80	40						120
VP3	21/11/2023	Snipe	1	10	50						60

VP Name	Date	Species	Number	< 10m	10-20m	20-30m	30-40m	40-50m	50-200m	> 200m	Total Duration (s)
VP3	21/11/2023	Kestrel	1		103						103
VP3	21/11/2023	Snipe	1		15	40					55
VP3	21/11/2023	Snipe	1		30	41					71
VP3	21/11/2023	Black-headed Gull	1		20						20
VP3	21/11/2023	Merlin	1	15	7						22
VP1	05/12/2023	Sparrowhawk	1	5	5	10					20
VP1	05/12/2023	Kestrel	1		20	20					40
VP2	27/12/2023	Nil Sightings									
VP2	27/12/2023	Nil Sightings									
VP3	20/12/2023	Kestrel	1	25							25
VP3	20/12/2023	Raven	1	20							20
VP3	20/12/2023	Raven	1	20	10	55	10				95
VP3	28/12/2023	Hen Harrier	1	55							55
VP3	28/12/2023	Hen Harrier	1	5	10						15

VP Name	Date	Species	Number	< 10m	10-20m	20-30m	30-40m	40-50m	50-200m	> 200m	Total Duration (s)
VP3	28/12/2023	Snipe	1				40				40
VP3	19/12/2023	Snipe	10	10	20						30
VP3	19/12/2023	Kestrel	1	30							30
VP3	19/12/2023	Raven	1	10	10	20					40
VP3	19/12/2023	Merlin	1	30							30
VP3	19/12/2023	Kestrel	1	5	5	55					65
VP3	19/12/2023	Kestrel	1	10	15	110					135
VP3	19/12/2023	Kestrel	1	45							45
VP1	21/03/2024	Herring Gull	3		10		25		50		85
VP1	21/03/2024	Nil Sightings									
VP1	25/03/2024	Sparrowhawk	1	15							15
VP2	20/03/2024	Merlin	1	5							5
VP2	20/03/2024	Raven	1		5	5	5				15
VP2	20/03/2024	Herring Gull	8					40	170		210
VP2	20/03/2024	Peregrine	1				35		60	90	185

VP Name	Date	Species	Number	< 10m	10-20m	20-30m	30-40m	40-50m	50-200m	> 200m	Total Duration (s)
VP2	20/03/2024	Kestrel	1		15	75					90
VP2	20/03/2024	Kestrel	1		30	20	80				130
VP2	20/03/2024	Herring Gull	1						25		25
VP3	19/03/2024	Nil Sightings									
VP3	19/03/2024	Nil Sightings									
VP3	26/03/2024	Grey Heron	2	50							50
VP3	26/03/2024	Grey Heron	1	5							5
VP3	26/03/2024	Grey Heron	1	17	2						19
VP3	26/03/2024	Grey Heron	1	18							18
VP3	26/03/2024	Herring Gull	2			7					7
VP3	26/03/2024	Grey Heron	1	30							30
VP3	26/03/2024	Grey Heron	1	16							16
VP3	26/03/2024	Lesser Black-backed Gull	17				90	40			130
VP1	27/03/2024	Sparrowhawk	1	12							12

VP Name	Date	Species	Number	< 10m	10-20m	20-30m	30-40m	40-50m	50-200m	> 200m	Total Duration (s)
VP1	27/03/2024	Merlin	1	45	5						50
VP1	27/03/2024	Lesser Black-backed Gull	6	20	40						60
VP1	27/03/2024	Mallard	1			20	40	20			80
VP1	27/03/2024	Lesser Black-backed Gull	1		40	40					80
VP1	27/03/2024	Lesser Black-backed Gull	1	20	20	30	30	10			110
VP1	27/03/2024	Kestrel	1	10	80	10					100
VP1	27/03/2024	Kestrel	1	10	30	100	40				180
VP1	27/03/2024	Kestrel	1	30	200	120	80				430
VP1	27/03/2024	Kestrel	1	15	20	10					45
VP1	27/03/2024	Lesser Black-backed Gull	3		30	30	30				90
VP1	27/03/2024	Kestrel	1	10	20	90	30				150
VP1	27/03/2024	Kestrel	1	40	80	120	150				390
VP1	27/03/2024	Kestrel	1		50	215	50				315
VP1	27/03/2024	Lesser Black-backed Gull	4			10	35	20			65

VP Name	Date	Species	Number	< 10m	10-20m	20-30m	30-40m	40-50m	50-200m	> 200m	Total Duration (s)
VP1	27/03/2024	Kestrel	1	50	30	30					110
VP1	27/03/2024	Lesser Black-backed Gull	1	12	3						15
VP1	27/03/2024	Lesser Black-backed Gull	1	50	50	20					120
VP1	27/03/2024	Lesser Black-backed Gull	2	45	30						75
VP2	28/03/2024	Sparrowhawk	1	20	20						40
VP2	28/03/2024	Little Egret	1	10	35	40					85
VP2	28/03/2024	Kestrel	1	30	50	20					100
VP2	28/03/2024	Kestrel	1	25							25
VP2	28/03/2024	Lesser Black-backed Gull	1			6					6
VP2	28/03/2024	Lesser Black-backed Gull	1	40	5						45
VP2	28/03/2024	Kestrel	1	15	30	40					85
VP2	28/03/2024	Kestrel	1	5	30	10					45
VP2	28/03/2024	Kestrel	1	30	10						40
VP2	28/03/2024	Kestrel	1	10	25	40	30	20	80		205

VP Name	Date	Species	Number	< 10m	10-20m	20-30m	30-40m	40-50m	50-200m	> 200m	Total Duration (s)
VP2	28/03/2024	Kestrel	1		15	20					35
VP2	28/03/2024	Kestrel	1	10	10						20
VP2	28/03/2024	Kestrel	1	40	100	40					180
VP2	28/03/2024	Kestrel	1		55	10					65
VP3	22/03/2024	Sparrowhawk	1	20	15	5					40
VP3	22/03/2024	Raven	1			10	25				35
VP3	11/03/2024	Nil Sightings									
VP3	11/03/2024	Nil Sightings									
VP3	09/10/2023	Nil Sightings									
VP3	09/10/2023	Nil Sightings									

Table A.7: Breeding season 2024 results.

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP3	23/04/2024	Nil Sightings										
VP3	07/05/2024	Nil Sightings										
VP2	08/05/2024	Nil Sightings										
VP2	09/05/2024	Nil Sightings										
VP2	09/05/2024	Lesser Black-backed Gull	2		40	160					200	
VP2	09/05/2024	Kestrel	1	10	60						70	
VP2	14/05/2024	Nil Sightings										
VP2	14/05/2024	Nil Sightings										
VP1	16/05/2024	Nil Sightings										
VP1	16/05/2024	Nil Sightings										
VP3	17/05/2024	Nil Sightings										
VP1	20/05/2024	Nil Sightings										
VP2	20/05/2024	Nil Sightings										
VP1	23/05/2024	Lesser Black-backed Gull	1		9						9	Flew towards Lake, disappeared out of sight
VP3	23/05/2024	Nil Sightings										
VP3	23/05/2024	Nil Sightings										
VP2	04/06/2024	Lesser Black-backed Gull	2			30					30	

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP2	04/06/2024	Lesser Black-backed Gull	1				40				40	
VP2	04/06/2024	Lesser Black-backed Gull	2				30				30	
VP1	05/06/2024	Kestrel	1		45						45	
VP1	05/06/2024	Kestrel	1		60						60	
VP1	07/06/2024	Nil Sightings										
VP3	17/06/2024	Lesser Black-backed Gull	1	20	40						60	
VP3	17/06/2024	Common Gull	1		35						35	
VP3	17/06/2024	Lesser Black-backed Gull	1	20	50						70	
VP2	17/06/2024	Nil Sightings										
VP3	18/06/2024	Nil Sightings										
VP3	05/07/2024	Great Black-backed Gull	1						100		100	
VP3	05/07/2024	Herring Gull	1			7					7	
VP3	05/07/2024	Herring Gull	1					30	136		166	
VP3	05/07/2024	Herring Gull	1					42			42	
VP3	05/07/2024	Lesser Black-backed Gull	4				8				8	
VP3	05/07/2024	Lesser Black-backed Gull	1			42	20	20			82	
VP3	05/07/2024	Kestrel	1		30						30	Carrying prey
VP2	09/07/2024	Lesser Black-backed Gull	1	15	10						25	
VP2	09/07/2024	Lesser Black-backed Gull	1	5	10						15	

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP2	09/07/2024	Nil Sightings										
VP1	12/07/2024	Lesser Black-backed Gull	1	20	10						30	
VP1	12/07/2024	Lesser Black-backed Gull	1		20						20	
VP1	12/07/2024	Lesser Black-backed Gull	1	10	20						30	
VP1	12/07/2024	Lesser Black-backed Gull	1		20						20	
VP1	12/07/2024	Hen Harrier	1	25							25	
VP1	12/07/2024	Hen Harrier	1	5	10						15	
VP1	12/07/2024	Hen Harrier	1	20	10						30	
VP3	15/07/2024	Lesser Black-backed Gull	1		30						30	
VP3	15/07/2024	Herring Gull	1		5	15					20	
VP3	15/07/2024	Lesser Black-backed Gull	1			20					20	
VP3	15/07/2024	Lesser Black-backed Gull	1		10	50					60	
VP3	15/07/2024	Lesser Black-backed Gull	1		15						15	
VP3	15/07/2024	Herring Gull	1			20					20	
VP3	15/07/2024	Herring Gull	1			20	10				30	
VP3	15/07/2024	Lesser Black-backed Gull	1			20					20	
VP3	22/07/2024	Lesser Black-backed Gull	1			30					30	
VP3	22/07/2024	Lesser Black-backed Gull	1			30					30	
VP3	22/07/2024	Kestrel	1		10						10	Carrying prey

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP3	22/07/2024	Kestrel	1		30	90					120	
VP3	22/07/2024	Lesser Black-backed Gull	1		5	25					30	
VP1	24/07/2024	Lesser Black-backed Gull	1	10							10	
VP1	24/07/2024	Lesser Black-backed Gull	1	30	15						45	
VP1	24/07/2024	Hen Harrier	1	20							20	
VP1	24/07/2024	Lesser Black-backed Gull	1		20						20	
VP2	24/07/2024	Lesser Black-backed Gull	1			70					70	
VP2	25/07/2024	Lesser Black-backed Gull	3		21	80	20				121	
VP2	25/07/2024	Lesser Black-backed Gull	1				50				50	
VP3	26/07/2024	Golden Plover	2	5	5	10					20	Landed in field, foraging in field
VP3	26/07/2024	Raven	2			20	20	10			50	
VP3	26/07/2024	Kestrel	1				50	30			80	
VP3	01/08/2024	Lesser Black-backed Gull	1				50	20			70	
VP3	01/08/2024	Lesser Black-backed Gull	1		20						20	
VP3	01/08/2024	Lesser Black-backed Gull	1				46	22			68	
VP3	01/08/2024	Lesser Black-backed Gull	1			22					22	Lost sight behind trees, flying west

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP3	01/08/2024	Kestrel	1			38	10				48	
VP3	01/08/2024	Lesser Black-backed Gull	1		10	24	10				44	
VP3	01/08/2024	Herring Gull	1	25	15						40	
VP3	01/08/2024	Lesser Black-backed Gull	1	7							7	Landed in field
VP3	01/08/2024	Lesser Black-backed Gull	1	28							28	
VP3	01/08/2024	Herring Gull	3	12							12	Grazing on freshly spread field with HC and a LB
VP3	01/08/2024	Herring Gull	1	4	2						6	Landed in field
VP3	01/08/2024	Lesser Black-backed Gull	1	4	8						12	
VP3	01/08/2024	Lesser Black-backed Gull	1	11	29						40	
VP3	01/08/2024	Kestrel	1		110	9					119	Disappeared behind trees
VP3	01/08/2024	Lesser Black-backed Gull	1		16	20					36	
VP3	01/08/2024	Lesser Black-backed Gull	2		22						22	Adult and juvenile
VP3	07/08/2024	Lesser Black-backed Gull	1			12					12	
VP3	09/08/2024	Lesser Black-backed Gull	1		7	7	13	20			47	
VP3	09/08/2024	Herring Gull	1	10	35						45	
VP3	09/08/2024	Nil Sightings										

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP1	12/08/2024	Kestrel	1		45	100					145	
VP1	12/08/2024	Kestrel	1	130	70	55					255	
VP1	12/08/2024	Kestrel	1	20	25	50					95	
VP1	12/08/2024	Kestrel	1	20	15						35	
VP1	12/08/2024	Kestrel	1	85							85	
VP1	12/08/2024	Kestrel	1	80	30						110	
VP1	12/08/2024	Kestrel	1	100							100	
VP1	12/08/2024	Kestrel	1	40	10						50	
VP1	12/08/2024	Kestrel	1	270	70						340	
VP1	12/08/2024	Kestrel	1	100	30						130	
VP1	12/08/2024	Herring Gull	1			5	10	10	50		75	
VP1	12/08/2024	Herring Gull	2	20	60	30					110	
VP1	12/08/2024	Mallard	1	8	2						10	
VP1	12/08/2024	Kestrel	1	80	20						100	
VP1	12/08/2024	Kestrel	1		60						60	
VP1	12/08/2024	Kestrel	1	40	40						80	
VP1	12/08/2024	Kestrel	1	70	5						75	
VP1	12/08/2024	Kestrel	1	70	25						95	
VP1	12/08/2024	Kestrel	1	70							70	
VP1	12/08/2024	Kestrel	1		20	50	20				90	

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP1	12/08/2024	Lesser Black-backed Gull	1		20	50					70	
VP1	12/08/2024	Lesser Black-backed Gull	1				20				20	
VP1	12/08/2024	Kestrel	1	40	100	80					220	
VP1	12/08/2024	Kestrel	2	30							30	
VP1	12/08/2024	Kestrel	1	10	30	10					50	
VP1	12/08/2024	Kestrel	1	2	13	60					75	
VP1	12/08/2024	Kestrel	1	20							20	
VP1	12/08/2024	Kestrel	1	1	40	34					75	
VP1	12/08/2024	Lesser Black-backed Gull	2	15	45						60	
VP1	12/08/2024	Kestrel	1	100	50	15					165	
VP1	12/08/2024	Kestrel	1	45	15						60	
VP1	12/08/2024	Kestrel	1	30							30	
VP1	12/08/2024	Kestrel	1	20	25	30					75	
VP1	12/08/2024	Kestrel	1	20	15	15	45				95	
VP1	12/08/2024	Kestrel	1	10	45						55	
VP1	12/08/2024	Kestrel	1	5	25						30	
VP1	12/08/2024	Kestrel	1	30	20	50	180				280	
VP1	12/08/2024	Lesser Black-backed Gull	2	40	30	20	30				120	
VP1	12/08/2024	Kestrel	1	5	40						45	
VP1	12/08/2024	Kestrel	1	40	55						95	

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP1	12/08/2024	Kestrel	1	15							15	
VP1	12/08/2024	Kestrel	1	20							20	
VP1	12/08/2024	Kestrel	1	5							5	
VP1	12/08/2024	Kestrel	1	20							20	
VP1	12/08/2024	Lesser Black-backed Gull	3		30	30	30	40			130	
VP1	12/08/2024	Lesser Black-backed Gull	2	10	10	10	55				85	
VP2	13/08/2024	Kestrel	1	40							40	
VP2	13/08/2024	Kestrel	1			45	15				60	
VP2	13/08/2024	Sparrowhawk	1	7							7	
VP2	13/08/2024	Lesser Black-backed Gull	1			70	30				100	
VP2	13/08/2024	Lesser Black-backed Gull	3			30	30	40	70		170	
VP2	13/08/2024	Lesser Black-backed Gull	3			30					30	
VP2	13/08/2024	Lesser Black-backed Gull	1		15	20					35	
VP2	13/08/2024	Lesser Black-backed Gull	1	40	70	80	30				220	
VP2	13/08/2024	Lesser Black-backed Gull	1					10	60	20	90	
VP2	13/08/2024	Kestrel	1	40	15						55	
VP2	13/08/2024	Kestrel	1	50	27						77	
VP2	13/08/2024	Kestrel	1	2	5						7	
VP2	13/08/2024	Kestrel	1	100	165						265	
VP2	13/08/2024	Kestrel	1		10						10	

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP2	13/08/2024	Kestrel	1		55						55	
VP2	13/08/2024	Kestrel	1		30	50	40				120	
VP2	13/08/2024	Kestrel	1	55	35						90	
VP2	13/08/2024	Lesser Black-backed Gull	2		20	40	25				85	
VP1	20/08/2024	Lesser Black-backed Gull	1	5	5	10	20				40	
VP1	20/08/2024	Lesser Black-backed Gull	1			30					30	
VP1	20/08/2024	Mallard	1					35			35	
VP2	21/08/2024	Nil Sightings										
VP2	21/08/2024	Lesser Black-backed Gull	1		10	30	20	60			120	
VP2	21/08/2024	Herring Gull	1				60				60	
VP2	21/08/2024	Herring Gull	1			15					15	
VP2	21/08/2024	Lesser Black-backed Gull	1				50				50	
VP2	21/08/2024	Lesser Black-backed Gull	1				35				35	
VP3	29/08/2024	Lesser Black-backed Gull	1			49					49	
VP3	29/08/2024	Mallard	1		20						20	
VP3	29/08/2024	Lesser Black-backed Gull	1			30	20				50	
VP3	29/08/2024	Kestrel	1		60						60	Hunting then dropped out of sight behind trees

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP3	29/08/2024	Kestrel	1	3	17						20	Dropped out of sight
VP3	29/08/2024	Kestrel	1		31						31	
VP3	29/08/2024	Kestrel	1		13	9					22	
VP3	29/08/2024	Kestrel	1		14	70					84	
VP3	29/08/2024	Lesser Black-backed Gull	1				30	39			69	
VP3	29/08/2024	Kestrel	1			116					116	
VP3	29/08/2024	Herring Gull	5		10	10	29				49	Mix of adults and juveniles headed towards Lake
VP3	29/08/2024	Herring Gull	6		30	10					40	Headed towards previous bout of gulls
VP3	29/08/2024	Herring Gull	7			65	15				80	Initially 2, joined by 5 after about 30s
VP3	29/08/2024	Herring Gull	3			24	10				34	Following previous bout
VP3	29/08/2024	Herring Gull	3		30						30	

VP Name	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration (s)	Bird Notes
VP3	29/08/2024	Herring Gull	6	10	10	10					30	Following previous bout, dipping low over rough grazing
VP3	29/08/2024	Herring Gull	2		10	16					16	
VP3	29/08/2024	Lesser Black-backed Gull	1			25					25	

Table A.8: Winter season 2024/2025 Results.

VP Number	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration	Notes
VP1	03/09/2024	Kestrel	1		5	20	0				25	
VP1	03/09/2024	Herring Gull	1				15				15	
VP1	03/09/2024	Kestrel	1			40	100	20			160	
VP1	03/09/2024	Kestrel	1	20	30	40	200				290	
VP2	09/09/2024	Herring Gull	17	10	30	10					50	
VP2	09/09/2024	Herring Gull	2	3	15						18	
VP2	09/09/2024	Herring Gull	1	5	11						16	
VP2	09/09/2024	Herring Gull	1		13						13	
VP2	09/09/2024	Herring Gull	1		7						7	
VP2	09/09/2024	Herring Gull	4	5	25	5					35	
VP2	09/09/2024	Herring Gull	2	5	10						15	
VP2	09/09/2024	Kestrel	1	15							15	
VP2	09/09/2024	Herring Gull	8	30	50	70					150	
VP3	09/09/2024	Kestrel	1	15	25						40	
VP3	09/09/2024	Herring Gull	4		10	30	20				60	
VP3	09/09/2024	Kestrel	1	15	5						20	
VP2	09/09/2024	Herring Gull	1			8					8	
VP2	09/09/2024	Herring Gull	1		30						30	
VP2	09/09/2024	Kestrel	1	40	135						175	

VP Number	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration	Notes
VP2	09/09/2024	Sparrowhawk	1	10							10	
VP2	09/09/2024	Kestrel	1	15							15	
VP3	09/09/2024	Kestrel	1	15							15	
VP2	09/09/2024	Kestrel	1		40	40					80	
VP2	09/09/2024	Herring Gull	2	25	15						40	
VP2	09/09/2024	Herring Gull	1	50	10						60	
VP2	09/09/2024	Herring Gull	3		5	10					15	
VP2	16/09/2024	Kestrel	1	10	30						40	
VP3	16/09/2024	Hen Harrier	1	8	4						12	
VP3	16/09/2024	Kestrel	1		5						5	
VP1	16/09/2024	Kestrel	1	5	40						45	
VP1	16/09/2024	Lesser Black-backed Gull	1		90						90	
VP2	16/09/2024	Kestrel	2	5	35						40	
VP2	16/09/2024	Kestrel	1	10	40						50	
VP3	16/09/2024	Nil Sightings										
VP3	19/09/2024	Buzzard	1	10	60	40	10				120	
VP1	19/09/2024	Snipe	1	10	20	40					70	
VP2	19/09/2024	Kestrel	1	15							15	
VP2	19/09/2024	Kestrel	1	100	50						150	

VP Number	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration	Notes
VP2	19/09/2024	Kestrel	1	80	35						115	
VP2	19/09/2024	Herring Gull	1	10	15						25	
VP2	19/09/2024	Kestrel	2	15	22						37	
VP2	19/09/2024	Herring Gull	1				40	60	140		240	
VP2	19/09/2024	Kestrel	1	20							20	
VP2	20/09/2024	Kestrel	1	50							50	
VP2	20/09/2024	Kestrel	1	135							135	
VP2	20/09/2024	Kestrel	1	10	30	10					50	
3	20/09/2024	Kestrel	1	30	50	50					130	
3	20/09/2024	Kestrel	1	25							25	
VP1	20/09/2024	Kestrel	1	150	20						170	
VP1	20/09/2024	Kestrel	1	30	20						50	
2	20/09/2024	Kestrel	1	40	50						90	
VP1	20/09/2024	Kestrel	1	10	10						20	
VP1	20/09/2024	Kestrel	2	3	15						18	Two kestrels in conflict
VP3	20/09/2024	Sparrowhawk	1		10	20	20	20	150		220	
VP3	20/09/2024	Kestrel	1	20	70	60	20				170	
VP1	20/09/2024	Kestrel	1	15							15	
VP1	20/09/2024	Kestrel	1	20	50	35					105	

VP Number	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration	Notes
VP3	20/09/2024	Kestrel	2	30							30	
VP3	30/09/2024	Nil Sightings										
VP1	23/10/2024	Kestrel	1	55	20						75	
VP2	23/10/2024	Sparrowhawk	2			10	10	20			40	
VP2	23/10/2024	Kestrel	1			120	200				320	
VP2	23/10/2024	Snipe	1		5	25	20				50	
VP2	24/10/2024	Lesser Black-backed Gull	1		15						15	
VP2	24/10/2024	Kestrel	1		13						13	
VP2	24/10/2024	Kestrel	1		60	60					120	
VP2	24/10/2024	Kestrel	2		10						10	
VP2	24/10/2024	Kestrel	1		60	30	30				120	
VP2	24/10/2024	Kestrel	1			186					186	
VP2	24/10/2024	Sparrowhawk	1			30					30	Mobbed by hooded crows
VP2	24/10/2024	Kestrel	1			75					75	
VP2	24/10/2024	Kestrel	1			100	25				125	
VP1	24/10/2024	Raven	1			15	25				40	
VP1	24/10/2024	Raven	1			10					10	
VP1	25/10/2024	Hen Harrier	1	30							30	
VP1	06/11/2024	Kestrel	1			80					80	

VP Number	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration	Notes
VP1	06/11/2024	Kestrel	1				30				30	
VP1	06/11/2024	Kestrel	1		10						10	
VP1	06/11/2024	Kestrel	1			40	300			15	355	
VP1	06/11/2024	Kestrel	1			105					105	
VP3	07/11/2024	Kestrel	1		36						36	
VP3	11/11/2024	Nil Sightings										
VP3	11/11/2024	Kestrel	1		10						10	
VP3	11/11/2024	Kestrel	1		10						10	
VP3	11/11/2024	Kestrel	1		7						7	
VP2	11/11/2024	Kestrel	1		14						14	
VP2	10/12/2024	Raven	2	17							17	
VP2	10/12/2024	Snipe	1	11							11	
VP1	11/12/2024	Nil Sightings										
VP1	11/12/2024	Nil Sightings										
VP1	12/12/2024	Nil Sightings										
VP1	12/12/2024	Nil Sightings										
VP1	13/12/2024	Nil Sightings										
VP1	20/12/2024	Nil Sightings										
VP1	31/12/2024	Nil Sightings										
VP1	16/01/2025	Sparrowhawk	1		40	60	40				140	

VP Number	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration	Notes
VP1	16/01/2025	Sparrowhawk	1		20						20	
VP1	16/01/2025	Kestrel	1	2	3	5					10	
VP1	16/01/2025	Kestrel	1	50	265	100					415	
VP1	16/01/2025	Sparrowhawk	1	6							6	
VP1	16/01/2025	Kestrel	1	20	15						35	
VP1	16/01/2025	Golden Plover	70		50	20					70	
VP1	16/01/2025	Kestrel	1	10	60						70	
VP3	16/01/2025	Mallard	2		5	5					10	
VP3	16/01/2025	Kestrel	1	20							20	
VP3	16/01/2025	Raven	1				25				25	
VP3	16/01/2025	Mallard	2			25					25	
VP3	17/01/2025	Nil Sightings										
VP3	17/01/2025	Nil Sightings										
VP3	30/01/2025	Herring Gull	1		60						60	
VP3	31/01/2025	Snipe	1	5	10	10					25	Landed at end of bout.
VP3	31/01/2025	Raven	1	20	30						50	
VP3	31/01/2025	Sparrowhawk	1	7	13						20	
VP3	31/01/2025	Grey Heron	1	10	15						25	
VP3	11/02/2025	Nil Sightings										

VP Number	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration	Notes
VP3	12/02/2025	Mallard	2	4							4	
VP3	13/02/2025	Mallard	1	20							20	
VP3	13/02/2025	Mallard	2	15							15	
VP3	14/02/2025	Buzzard	1	2	8						10	
VP3	14/02/2025	Kestrel	1	20	160						180	
VP3	14/02/2025	Kestrel	1	15							15	
VP3	07/03/2025	Raven	1		20	20	40				80	
VP3	07/03/2025	Kestrel	1	20	70	160	60				310	Dived on prey before flying off again.
VP3	07/03/2025	Kestrel	1		20	25					45	
VP3	07/03/2025	Kestrel	1		10	30					40	
VP3	07/03/2025	Kestrel	1	25	5	5	50				85	
VP3	07/03/2025	Kestrel	1			200	85	100			385	
VP3	21/03/2025	Kestrel	1		80						80	
VP3	21/03/2025	Kestrel	1				300				300	
VP3	21/03/2025	Kestrel	1		120						120	
VP3	21/03/2025	Kestrel	1				60				60	
VP3	26/03/2025	Grey Heron	1		28						28	
VP3	26/03/2025	Raven	1		50	4					54	
VP3	26/03/2025	Herring Gull	1	3	50						53	

VP Number	Date	Species	Number	<10m	10-20m	20-30m	30-40m	40-50m	50-200m	>200m	Total Duration	Notes
VP3	26/03/2025	Raven	1	8	80						88	
VP3	26/03/2025	Hen Harrier	1	3	70	20					93	
VP3	26/03/2025	Hen Harrier	1		200	35					235	
VP3	26/03/2025	Teal	1	14							14	
VP3	26/03/2025	Golden Plover	100						100	75	175	
VP3	27/03/2025	Kestrel	1		52						52	
VP3	27/03/2025	Raven	1	46							46	
VP3	27/03/2025	Kestrel	1	20							20	
VP3	27/03/2025	Kestrel	1	44							44	
VP3	27/03/2025	Lesser Black-backed Gull	1			69					69	
VP3	01/04/2025	Raven	1			64					64	
VP3	01/04/2025	Herring Gull	2			21	50				71	
VP3	01/04/2025	Herring Gull	1	8	40						48	

ANNEX B: COUNTRYSIDE BIRD SURVEY DATA**Table B.1:** Transect Survey Efforts and Weather Data – Breeding Season 2023.

Transect No.	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Start Time	End Time	Duration of Survey (sec)
1	21/04/2023	EC	Dry	1/8	15	F3	NE	08:06	08:20	840
2	21/04/2023	EC	Dry	1/8	15	F3	NE	08:25	08:40	900
1	16/05/2023	EC	Dry	3/8	15	F2	NNE	07:55	08:25	1800
2	02/06/2023	EC	Dry	4/8	15	F2	SW	07:33	07:56	1380

Table B.2: Transect Survey Efforts and Weather Data – Winter Season 2023/2024.

Transect No.	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Start Time	End Time	Duration of Survey(sec)
1	21/11/2023	SID	None	7/8	10	F1	W	14:05	15:00	3300
2	28/11/2023	SID	Drizzle	6/8	13	F1	SSW	15:26	16:21	3300
1	05/12/2023	EM	None	1/8	15	F1	NE	12:50	13:30	1800
2	19/12/2023	JOC	Dry	6/8	10	F3	NW	09:11	09:45	2160
1	20/03/2024	VH	None	3/8	20	F2	NNW	14:20	15:00	2400
2	21/03/2024	VH	None	8/8	10	F5	SSW	07:30	08:10	2400
1	11/03/2024	SS	Constant Rain	8/8	10	F2	SSW	17:40	18:20	2400
2	19/03/2024	SS	None	8/8	10	F1	NW	17:00	18:00	3600

Table B.3: Transect Survey Efforts and Weather Data – Breeding Season 2024.

Transect No.	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Start Time	End Time	Duration of Survey(sec)
1	17/05/2024	EC	Drizzle	3/8	19	F3	NNW	07:10	07:40	1800
2	13/06/2024	JOH	Drizzle/rain	8/8	10	F4	SE	07:30	08:05	2100
1	23/05/2024	KS	None	5/8	26	F3	NW	06:45	07:16	1800
2	21/06/2024	SS	Drizzle	8/8	12	F3	SSE	07:45	08:30	2700

Table B.4: Transect Survey Efforts and Weather Data – Winter Season 2024/2025.

Transect No.	Date	Observer	Rain	Cloud	Visibility	Wind Speed	Wind Direction	Start Time	End Time	Duration of Survey(sec)
1	13/12/2024	HM	None	7/8	5	F1	W	12:27	13:00	1980
1	17/01/2025	JOC	None	5/8	10	F3	S	14:08	14:41	1980
2	06/11/2024	HM	None	8/8	5	F3	SW	13:26	14:28	3720
2	13/12/2024	HM	None	7/8	5	F1	W	13:00	13:40	2400

ANNEX C: WINTERING WETLAND BIRD SURVEYS (I-WEBS) SURVEY DATA**Table C.1: I-WeBS 2023-2024 efforts**

Date	Observer	Start Time	End Time	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp
01/11/2023	SS	11:00	15:00	None	6/8	15	F3	WNW	8
01/11/2023	SS	11:00	15:00	Drizzle	6/8	15	F3	WNW	8
08/11/2023	SS	10:30	16:00	Light Showers	8/8	14	F2	WSW	4
20/11/2023	KS & SS	10:40	13:00	None	5/8	8	F4	NNW	7
27/11/2023	SS	11:15	14:00	None	6/8	15	F2	NNW	7
07/12/2023	EM	14:30	17:00	None	4/8	15	F5	S	10
28/12/2023	DMC	10:20	12:20	Heavy Showers	6/8	16	F4	SW	9
04/03/2024	JOH	12:30	16:30	Heavy Showers	8/8	10	F5	ESE	8
12/03/2024	Ss	15:20	17:00	Drizzle	8/8	13	F4	S	12
19/03/2024	VH	14:20	17:50	None	7/8	20	F2	SW	11
25/03/2024	NA	12:48	12:48	Persistent Rain	8/8	8	F3	W	8

Table C.2: I-WeBS 2024/2025 efforts

Date	Observer	Start Time	End Time	Visibility	Cloud	Precipitation	Wind Speed	Wind Direction	Temperature
18/10/2024	JOC	10:05	12:35	10	8/8	Moderate rain	F4	S	15
31/10/2024	JOH	12:15	17:15	5	8/8	Drizzle	F1	SSW	12
04/11/2024	HM	10:15	14:15	20	8/8	None	F1	SW	10
26/11/2024	SS	12:00	13:45	15	2/8	None	F1	E	5
04/12/2024	NA	12:00	15:25	7	8/8	Moderate rain	F4	SSE	11
18/12/2024	NC	10:30	13:30	13	8/8	Moderate rain	F3	WNW	8
17/01/2025	NC	12:00	15:00	20	3/8	None	F4	S	11
31/01/2025	HM	09:36	14:00	3	1/8	None	F1	W	3
11/02/2025	NL	14:53	17:00	5	7/8	None	F3	E	7
26/02/2025	DMC	09:45	12:30	16	8/8	Occasional showers	F3	WNW	5
04/03/2025	LK	10:30	14:00	5	3/8	None	F3	S	7
28/03/2025	NC	08:30	11:30	20	6/8	None	F4	WNW	7

ANNEX D: BREEDING MERLIN SURVEY RESULTS**Table D.1: Breeding merlin efforts 2023.**

Date	Observer	Start Time	End Time	Duration of survey (sec)	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.
18/07/2023	SID	12:00	18:00	19800	None	6/8	16	F1	NNW	18

Table D.2: Breeding Merlin Survey Results 2023

Date	Start Time	End Time	Duration of survey (sec)	Location (ITM)	Sighting	Time of sighting	Notes
18/07/2023	12:00	18:00	19800	510291, 681336	Nil Sighting	12:00	Plucking post. No activity observed in the area.
18/07/2023	12:00	18:00	19800	511935, 680773	Plucked Item	14:20	Feathers observed around tree branch. Possible sparrowhawk, low chance for Merlin.
18/07/2023	12:00	18:00	19800	508387, 682553	Nil Sighting	16:00	Possible plucking post. No activity observed in the area.

ANNEX E: BREEDING WOODCOCK RESULTS**Table E.1: Breeding Woodcock Survey Efforts, Weather Data and Results 2023.**

Survey	Surveyor	Date	Rain	Wind Speed	Wind Direction	Cloud	Visibility	Temp.	Start Time	End Time	Duration of survey (sec)	Coordinates of Watch Location (ITM)	Species
May	EC	30/05/2023	None	F2	SE	3/8	15	14	21:34	22:49	4500	509641, 680862	Nil Sightings
May	EC	12/06/2023	Drizzle	F2	S	6/8	10	16	21:47	23:02	4500	509741, 680972	Nil Sightings
May	EC	20/06/2023	Heavy Showers	F3	WSW	6/8	10	17	21:52	23:08	4500	509601, 680823	Nil Sightings
May	EC	27/06/2023	Occasional showers	F3	SW	4/8	15	16	21:51	22:05	4500	509641, 680862	Nil Sightings
June	JOC	05/07/2023	None	F3	SW	8/8	5	13	21:45	23:00	4500	-	Nil Sightings
June	ML	10/07/2023	Dry	F1	SE	8/8	15	14	21:45	23:00	4500	509705, 680934	Nil Sightings

Table E.2: Breeding Woodcock Survey Efforts, Weather Data and Results 2024

Survey	Surveyor	Date	Rain	Wind Speed	Wind Direction	Cloud	Visibility	Temp.	Start Time	End Time	Duration of survey (sec)	Coordinates of Watch Location (ITM)	Species
May	LK	13/05/2024	Light Showers	F1	WNW	6/8	15	14	20:55	22:25	5400	509742.85, 680953.53	Nil Sightings
May	NL	09/05/2024	None	F2	SSE	5/8	5	17	20:50	22:20	5400	509626.8, 680722.59	Nil Sightings
May	EC	14/05/2024	Occasional showers	F2	N	5/8	15	9	21:11	22:26	4500	509763.12, 680936.5	Nil Sightings

Survey	Surveyor	Date	Rain	Wind Speed	Wind Direction	Cloud	Visibility	Temp.	Start Time	End Time	Duration of survey (sec)	Coordinates of Watch Location (iTM)	Species
May	EC	21/05/2024	None	F2	N	6/8	15	11	21:24	22:39	4500	509619.29, 680875.95	Nil Sightings
May	EC	22/05/2024	None	F3	NNW	5/8	20	7	21:29	22:42	4500	510060.26, 681568.09	Nil Sightings
May	EC	23/05/2024	None	F2	NW	6/8	20	8	21:25	22:40	4500	510086.19, 681515.94	Nil Sightings
June	EC	17/06/2024	None	F3	NNE	5/8	20	9	21:38	22:52	4500	509704.34, 681018.74	Nil Sightings
June	EC	18/06/2024	None	F2	NNW	3/8	25	9	21:43	22:58	4500	509616.77, 680869.87	Nil Sightings
June	HM	04/06/2024	None	F4	NW	4/8	2	12	21:40	22:55	4500	510099.52, 681469.89	Nil Sightings

ANNEX F: BREEDING WADER RESULTS

Table F.1: Breeding wader survey efforts 2023.

Date	Observer	Start Time	End Time	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp
18/04/2023	EC	07:25	10:00	Dry	7/8	8	F2	SSE	7
11/05/2023	EC	06:55	09:05	Occasional showers	6/8	10	F3	SW	10
05/07/2023	EC	07:08	09:25	Occasional showers	6/8	15	F3	W	12

Table F.2: Breeding wader survey efforts 2024.

Date	Observer	Start Time	End Time	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp
23/04/2024	KS	05:43	08:35	None	7/8	24	F1	NNE	12
17/05/2024	EC	07:08	09:30	Mist/light rain	4/8	19	F3	N	12
23/07/2024	NL	05:10	08:40	None	8/8	1	F2	W	13

Table F.3: Breeding wader Results 2023

Date	Start Time	End Time	Duration of survey (sec)	Sighting	Time of sighting	Notes
18/04/2023	7:25	10:00	9000	Nil Sightings		Pheasant heard
11/05/2023	6:55	9:05	7800	Nil Sightings		Pheasant - Heard, Fox- Seen & x2 Mallards
05/07/2023	7:08	9:25	8100	Nil Sightings		

Table F.4: Breeding Wader Results 2024

Date	Start Time	End Time	Duration of survey (sec)	Species	Time of sighting	Notes
23/04/2024	05:43	08:35	10800	Nil Sightings	06:15	Incidentals grasshopper warbler, cuckoo
23/04/2024	05:43	08:35	10800	Nil Sightings	07:00	Incidental skylark
23/04/2024	05:43	08:35	10800	Nil Sightings	07:20	Incidental kestrel
23/04/2024	05:43	08:35	10800	Nil Sightings	07:35	
23/04/2024	05:43	08:35	10800	Nil Sightings	07:45	
23/04/2024	05:43	08:35	10800	Nil Sightings	08:05	
23/04/2024	05:43	08:35	10800	Nil Sightings	08:15	
23/04/2024	05:43	08:35	10800	Nil Sightings	08:35	
23/04/2024	05:43	08:35	10800	Nil Sightings	08:25	
17/05/2024	07:08	09:30	8400	Nil Sightings	09:30	Nil sightings of target species
23/07/2024	05:10	08:40	1800	Nil Sightings	05:36	
23/07/2024	05:10	08:40	1800	Nil Sightings	05:50	
23/07/2024	05:10	08:40	1800	Nil Sightings	06:10	
23/07/2024	05:10	08:40	1800	Nil Sightings	06:40	
23/07/2024	05:10	08:40	1800	Nil Sightings	07:00	
23/07/2024	05:10	08:40	1800	Nil Sightings	07:22	
23/07/2024	05:10	08:40	1800	Nil Sightings	07:45	
23/07/2024	05:10	08:40	1800	Nil Sightings	08:15	

ANNEX G: BREEDING RAPTOR SUITABILITY RESULTS

Table G.1: Raptor suitability Survey Efforts and Weather Data- breeding season 2023.

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (sec)
26/04/2023	ML	Dry	6/8	15	F2	E	11	12:40	14:30	7200
11/05/2023	EC	Occasional showers	5/8	10	F3	SW	10	09:40	12:00	8400

Table G.2: Raptor suitability survey efforts and weather data- breeding season 2024.

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (sec)
26/04/2024	KS	None	1/8	24	F1	NNE	8	10:00	14:00	14400
08/05/2024	EC	None	4/8	15	F2	S	14	09:41	16:01	21600
03/07/2024	KS	Occasional showers	6/8	24	F5	WNW	14	14:15	15:45	5400

Table G.3: Raptor suitability Results 2023.

Survey Type	Date	Start Time	End Time	Duration of survey (sec)	ITM Co-ord.	Site Type	Suitability of the site	Notes
Suitability	26/04/2023	12:40	14:30	7200	508125, 681607	Ruin	Low	
Suitability	26/04/2023	12:40	14:30	7200	507453, 680151	Modern Agricultural building	Low	

Survey Type	Date	Start Time	End Time	Duration of survey (sec)	ITM Co-ord.	Site Type	Suitability of the site	Notes
Suitability	26/04/2023	12:40	14:30	7200	508966, 680904	Traditional Agricultural building	Low	
Suitability	26/04/2023	12:40	14:30	7200	509874, 680222	Traditional Agricultural building	Low	
Suitability	11/05/2023	09:40	12:00	8400	508988, 680902	Other	Low	Abandoned house & shed
Suitability	11/05/2023	09:40	12:00	8400	509183, 681111	Other	High	Active Quarry
Suitability	11/05/2023	09:40	12:00	8400	508111, 681638	Other	Intermediate	Graveyard
Suitability	11/05/2023	09:40	12:00	8400	508682, 681862	Other	Intermediate	Abandoned stone sheds
Suitability	11/05/2023	09:40	12:00	8400	509215, 682442	Other	Low	Old stone sheds
Suitability	11/05/2023	09:40	12:00	8400	510281, 683378	Other	Low	Old House & stone sheds
Suitability	11/05/2023	09:40	12:00	8400	510327, 683669	Other	Intermediate	Old House & stone sheds
Suitability	11/05/2023	09:40	12:00	8400	510444, 684037	Other	Low	Old House
Suitability	11/05/2023	09:40	12:00	8400	510725, 684613	Other	Intermediate	Stone structure
Suitability	11/05/2023	09:40	12:00	8400	511036, 684111	Other	Low	Old abandoned house
Suitability	11/05/2023	09:40	12:00	8400	511197, 684327	Other	Low	Old stone house - no access, bad visibility
Suitability	11/05/2023	09:40	12:00	8400	512156, 681899	Other	Low	Stone structure
Suitability	11/05/2023	09:40	12:00	8400	510680, 680498	Other	Intermediate	Stone structure

Survey Type	Date	Start Time	End Time	Duration of survey (sec)	ITM Co-ord.	Site Type	Suitability of the site	Notes
Suitability	11/05/2023	09:40	12:00	8400	510905, 679973	Other	Low	Stone sheds & old farmhouse
Suitability	11/05/2023	09:40	12:00	8400	508988, 680902	Other	Low	Abandoned house & shed
Suitability	11/05/2023	09:40	12:00	8400	509183, 681111	Other	High	Active Quarry
Suitability	11/05/2023	09:40	12:00	8400	508111, 681638	Other	Intermediate	Graveyard
Suitability	11/05/2023	09:40	12:00	8400	508682, 681862	Other	Intermediate	Abandoned stone sheds
Suitability	11/05/2023	09:40	12:00	8400	509215, 682442	Other	Low	Old stone sheds
Suitability	11/05/2023	09:40	12:00	8400	510281, 683378	Other	Low	Old House & stone sheds
Suitability	11/05/2023	09:40	12:00	8400	510327, 683669	Other	Intermediate	Old House & stone sheds
Suitability	11/05/2023	09:40	12:00	8400	510444, 684037	Other	Low	Old House
Suitability	11/05/2023	09:40	12:00	8400	510725, 684613	Other	Intermediate	Stone structure
Suitability	11/05/2023	09:40	12:00	8400	511036, 684111	Other	Low	Old abandoned house
Suitability	11/05/2023	09:40	12:00	8400	511197, 684327	Other	Low	Old stone house - no access, bad visibility
Suitability	11/05/2023	09:40	12:00	8400	512156, 681899	Other	Low	Stone structure
Suitability	11/05/2023	09:40	12:00	8400	510680, 680498	Other	Intermediate	Stone structure
Suitability	11/05/2023	09:40	12:00	8400	510905, 679973	Other	Low	Stone sheds & old farmhouse

Table G.4: Raptor suitability Results 2024.

Survey	Date	Start Time	End Time	Duration of survey (sec)	Location	Species	Evidence	Site Type	Suitability	Notes
Daytime Check	26/04/2024	10:00	14:00	14400	510332.9, 683672.53	Nil Sightings	Nil Sightings	Traditional Agricultural building	Intermediate	Cluster of old agricultural buildings, half ruined. Chimney intact.
Daytime Check	26/04/2024	10:00	14:00	14400	508123.03, 681609.36	Nil Sightings	Nil Sightings	Ruin	Low	Kilfarboy church & graveyard. Old graveyard containing tombs and church ruin. No ledges/crevices at suitable height for PE nesting. No signs of whitewash or pellets.
Daytime Check	26/04/2024	10:00	14:00	14400	509181.31, 681215.15	Nil Sightings	Nil Sightings	Other (specify in notes)	Intermediate	Liscannor Stone active quarry. Deepest part of quarry. Potentially not deep enough yet as rock face approx. 10m high. Worker said hasn't seen any Peregrines in quarry although has seen raptors flying over
Daytime Check	26/04/2024	10:00	14:00	14400	509239.69, 681443.31	Kestrel	Other (specify in notes)	Other (specify in notes)	Intermediate	Kestrel flying over grassland
Daytime Check	26/04/2024	10:00	14:00	14400	510693.57, 680497.59	Nil Sightings	Nil Sightings	Ruin	Low	Ruins. Just visible from roadside, uncertain of access
Daytime Check	08/05/2024	09:41	16:01	21600	509751.93, 681006.93	Nil Sightings	Nil Sightings	Other (specify in notes)	Intermediate	Conifer plantation & mixture of heath / bog & grazing grassland
Daytime Check	03/07/2024	11:50	11:55	300	510333.75, 683671.11	Nil Sightings	Nil Sightings	Mix of traditional & modern	Negligible	Building has been demolished since last survey. Wind gusting up to F5, not constant

Survey	Date	Start Time	End Time	Duration of survey (sec)	Location	Species	Evidence	Site Type	Suitability	Notes
								agricultural buildings		
Daytime Check	03/07/2024	12:25	14:00	5400	508979.87, 680899.56	Nil Sightings	Nil Sightings	Traditional Agricultural building	Intermediate	Abandoned buildings near quarry entrance. More suitable for kestrel than peregrine
Daytime Check	03/07/2024	14:15	15:45	5400	508399.8, 683394.92	Nil Sightings	Nil Sightings	Other (specify in notes)	High	Abandoned quarry with suitable hunting habitat surrounding high peregrine suitability

ANNEX H: BREEDING RAPTOR ACTIVITY RESULTS**Table H.1: Peregrine/Kestrel Activity Survey Efforts and Weather Data Breeding Season 2023.**

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (sec)
17/07/2023	SID	Drizzle	6/8	16	F2	WSW	16	11:00	16:00	15480
25/07/2023	JOH	None	5/8	10	f3	SW	18	14:30	18:00	12600
25/07/2023	NA	None	5/8	16	F3	SSE	18	12:20	16:20	14400

Table H.2: Peregrine/Kestrel Activity Survey Efforts and Weather Data Breeding Season 2024.

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of Survey (sec)
15/05/2024	EC	Occasional showers	3/8	23	F3	NE	15	09:36	12:36	10800
22/07/2024	NL	None	4/8	5	F2	SSE	15	12:05	17:05	18000
22/07/2024	NL	Occasional showers	8/8	5	F2	SSE	15	12:05	17:05	18000

Table H.3: Peregrine/Kestrel Activity Survey Results Breeding Season 2023.

Survey Type	Observer	Target Species	Date	Start Time	End Time	Duration of survey (sec)	ITM	Species	Evidence	Site Type	Suitability of the site	Notes
Peregrine Survey	SID	Peregrine	17/07/2023	11:00	16:00	15480	509201, 681012	Nil Sightings	Nil sightings	Other	-	Quarry
Peregrine Survey	SID	Peregrine	17/07/2023	11:00	16:00	15480	510725, 684613	Nil Sightings	Nil sightings	Other	-	Stone Structure
Peregrine Survey	SID	Peregrine	17/07/2023	11:00	16:00	15480	510688, 683662	Nil Sightings	Nil sightings	Other	-	Old house & stone sheds
Kestrel Survey	JOH	Kestrel	25/07/2023	14:30	18:00	12600	509657, 681136	Kestrel	Other (specify in notes)	Other	High	Stayed at VP1 (marked A on map) for survey. Female K seen hunting over HB and F for 4 mins. Flies in from N. 40-60ms.
Kestrel Survey	JOH	Kestrel	25/07/2023	14:30	18:00	12600	509582, 680994	Kestrel	Other (specify in notes)	Other	High	Female K flies in from S and hunts over bog for 12 mins @ 30-60ms.
Kestrel Survey	JOH	Kestrel	25/07/2023	14:30	18:00	12600	509288, 680793	Kestrel	Other (specify in notes)	Other	High	Female K flies in and hunts over F for 8 mins @ 40-70ms
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Kestrel hunting on heath.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Kestrel hunting on heath, then flew West.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Kestrel spotted for 4 minutes.

Survey Type	Observer	Target Species	Date	Start Time	End Time	Duration of survey (sec)	ITM	Species	Evidence	Site Type	Suitability of the site	Notes
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	2 Kestrels hunting over same patch of heath that previous kestrels were spotted on. Later joined by 2 more kestrels at map note (d). Appeared to be circling an old quarry site. Potentially a family? The two sitting on the heath appeared to be practicing hunting (lots of failed attempts made).
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Two Kestrels hunting for 2 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	3 Kestrels up on the same heath. In sight for 10 minutes. 2 hunting. The 3rd flying off elsewhere (map note (f)).
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Kestrel hunting for 3 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Another Kestrel hunting on the same heath. Flew off in same direction as (f). Seen for 2.5 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Kestrel seen briefly for 30 seconds hunting.

Survey Type	Observer	Target Species	Date	Start Time	End Time	Duration of survey (sec)	ITM	Species	Evidence	Site Type	Suitability of the site	Notes
												RECEIVED: 27/08/2023 Clare Planning Authority Inspection Only!
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Kestrel hunting near graveyard being surveyed. Flew off towards heathland and appears to be fending off a buzzard alongside 2 other Kestrels (from 13:49). Seen for 8 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Kestrel hunting for 8 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	Kestrel hunting. Joined by 2 other kestrels hunting in same area @ 14.10 (L). Flew out of sight at 14.13.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	508111, 681638	Kestrel	Nil sightings	Ruin	Intermediate	2 Kestrels seen hunting for 1 minute.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	509215, 682442	Kestrel	Nil sightings	Ruin	High	Kestrel seen hunting for 1 minute.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	509215, 682442	Kestrel	Nil sightings	Ruin	High	Male Kestrel hunting for 5 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	509215, 682442	Kestrel	Nil sightings	Ruin	High	Male Kestrel hunting for 3 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	509215, 682442	Kestrel	Nil sightings	Ruin	High	Kestrel hunting for 3 minutes.

Survey Type	Observer	Target Species	Date	Start Time	End Time	Duration of survey (sec)	ITM	Species	Evidence	Site Type	Suitability of the site		Notes
											Nil sightings	Ruin	High
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	509215, 682442	Kestrel	Nil sightings	Ruin	High		Fem/Juv. Kestrel hunting for 5 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	509215, 682442	Kestrel	Nil sightings	Ruin	High		Kestrel hunting for 9 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	509215, 682442	Kestrel	Nil sightings	Ruin	High		Fem/Juv. Kestrel hunting. Perched for 4 minutes.
Kestrel Survey	NA	Kestrel	25/07/2023	12:20	16:20	14400	509215, 682442	Kestrel	Nil sightings	Ruin	High		Fem/Juv. Kestrel hunting for 8 minutes.

Table H.4: Peregrine/Kestrel Activity Survey Results Breeding Season 2024.

Survey	Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of survey (sec)
Dusk roost watch/activity survey	15/05/2024	EC	Occasional showers	3/8	23	F3	NE	15	09:36	12:36	10800
Dusk roost watch/activity survey	22/07/2024	NL	None	4/8	5	F2	SSE	15	12:05	17:05	18000
Dusk roost watch/activity survey	22/07/2024	NL	Occasional showers	8/8	5	F2	SSE	15	12:05	17:05	18000

Table H.5: Breeding hen harrier survey efforts 2022.

Breeding Hen Harrier 2022											
Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)	
13/05/2022	LP	none	8/8	4	F4	W	14	12:00	17:00	18000	
04/07/2022	NC	Showers	8/8	20	F2	W	13	08:45	10:45	3600	
04/07/2022	NC	Showers	8/8	20	F2	W	13	11:00	13:00	3600	
04/07/2022	NC	Showers	8/8	20	F2	W	13	13:15	15:15	3600	
28/06/2022	EC	Occasional showers	5/8	10	F3	SSW	16	13:25	16:25	10800	
28/07/2022	NC	None	8/8	Good	F1	SSE	18	15:15	19:30	3600	
28/07/2022	NC	None	8/8	Good	F1	SSE	18	15:15	19:30	3600	

Table H.6: Breeding hen harrier survey efforts 2023.

Breeding Hen Harrier Efforts 2023											
Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)	
19/04/2023	EC	Dry	0/8	16	F2	SE	8	08:05	14:30	23400	
08/05/2023	EC	Drizzle	7/8	5	F2	SW	12	08:15	13:45	18000	
17/05/2023	EC	None	2/8	16	F1	ENE	8	08:05	14:35	21600	
18/05/2023	EC	None	2/8	15	F2	SW	10	07:53	13:23	21600	
30/05/2023	EC	None	0/8	15	F2	ESE	20	11:15	16:14	18000	
20/07/2023	JOC	None	4/8	10	F3	NW	15	09:15	11:15	7200	
20/07/2023	JOC	None	6/8	10	F3	NW	15	11:30	13:00	5400	

Breeding Hen Harrier Efforts 2023										
Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
20/07/2023	JOC	None	6/8	10	F3	NW	15	13:15	15:15	7200
21/07/2023	JOC	Occasional showers	8/8	5	F2	W	14	08:05	09:35	5400
21/07/2023	JOC	Occasional showers	8/8	5	F2	W	14	10:00	12:00	7200
21/07/2023	JOC	Occasional showers	8/8	5	F2	W	14	12:05	14:05	7200
29/08/2023	CG	Drizzle	5/8	12	F4	NW	15	11:00	13:00	7200
29/08/2023	CG	Drizzle	5/8	12	F4	NW	15	13:10	15:00	6600
29/08/2023	CG	Drizzle	5/8	12	F4	NW	15	15:40	17:30	6600
29/08/2023	JOC	Occasional showers	8/8	10	F3	NW	15	10:15	13:15	10800
29/08/2023	JOC	Occasional showers	8/8	10	F3	NW	15	13:25	16:25	10800

Table H.7: Breeding hen harrier survey results 2023.

Breeding Hen Harrier Results 2023							
Date	Time of sighting	Location of sighting (co-ordinate/Grid ref)	Species sighting	Evidence	Site Type	Suitability of the site	Notes
30/05/2023	13:07	510077.58, 681181.67	Kestrel	Other (specify in notes)	Heath	Intermediate	Kestrel flying over lake – 60 seconds
20/07/2023	12:15	509764.17, 682368.24	Hen harrier	Female seen	Other (specify in notes)	Intermediate	Female Hen Harrier seen hunting and catching prey. Flew in south-westerly direction with prey. Flew for 30 seconds.
21/07/2023	12:49	511020.94, 679593.15	Peregrine		Heath	Intermediate	Peregrine flying for approximately 270 seconds. Mobbed by kestrel.
29/08/2023	11:15	52.873396, 9.338505	Hen harrier	Male seen	Heath	High	Bout 1 seen from VP; male perched in deep heather near forestry for at least ten minutes before taking off west
29/08/2023	11:23	52.873396, 9.338505	Hen harrier	Male seen	Grassland	Low	Bout 2 seen from VP; male quartering over grassland
29/08/2023	15:52	512797.23, 677048.25	Hen harrier	Male seen	Grassland	Intermediate	Male seen quartering over rough grazing grassland. Flew for 75 seconds.

ANNEX I: HINTERLAND ROOST SURVEY DATA**Table I.1: Hen Harrier Roost Watch Efforts Winter 2023/2024.**

Survey	Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of survey (sec)
HH Roost Watch	01/11/2023	SS	None	4/8	12	F1	SW	7	16:35	18:10	5700
HH Roost Watch	20/11/2023	KS & SS	None	3/8	9	F4	NNW	5	15:53	17:53	6000
HH Roost Watch	20/11/2023	KS & SS	None	3/8	5	F4	NNW	5	15:53	17:35	6000
HH Roost Watch	20/11/2023	KS & SS	None	3/8	9	F4	NNW	5	15:53	17:35	6000
HH Roost Watch	18/01/2024	HM	None	1/8	2	F1	NW	1	16:15	17:49	5200
HH Roost Watch	19/03/2024	VH	None	7/8	16	F1	SE	9	18:00	19:30	5400
HH Roost Watch	01/05/2024	JOH	None	1/8	20	F2	SE	12	20:25	21:55	1800

Table I.2: Hen Harrier Roost Watch Efforts Winter 2024/2025.

Survey	Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of survey (sec)
HH Roost Watch	24/10/2024	JOC & HM	Light rain	8/8	5	F3	SE	14	17:50	18:50	3600
HH Roost Watch	06/11/2024	JOH & TPL	None	5/8	15	F3	SE	16	16:00	17:45	6300
HH Roost Watch	07/11/2024	HM & KS	None	7/8	5	F3	SW	13	16:31	17:45	10800
HH Roost Watch	20/11/2024	JOC & TPL	Light rain	8/8	10	F3	SW	3	16:05	17:20	4500
HH Roost Watch	12/12/2024	NC & DMC	None	8/8	20	F2	ESE	4	16:14	17:10	3360
HH Roost Watch	02/01/2025	JOC & JOH	None	1/8	5	F2	N	3	16:03	17:33	5400
HH Roost Watch	02/01/2025	JOC & HM	Light rain	8/8	5	F3	SE	14	17:50	18:50	3600

Table I.3: Hen Harrier Roost Watch Efforts Winter 2024/2025.

Date	Start Time	End Time	Duration of Survey(sec)	Sunset Time	Species
24/10/2024	17:50	18:50	3600	18:21	Nil Sightings
6/11/2024	16:00	17:45	6300	16:56	Nil Sightings
7/11/2024	16:31	17:45	10800	16:53	Nil Sightings
20/11/2024	16:05	17:20	4500	16:35	Nil Sightings
12/12/2024	16:14	17:10	3360	16:19	Nil Sightings
2/1/2025	16:03	17:33	5400	16:33	Nil Sightings
20/01/2025	16:30	18:00	5400	17:00	Nil Sightings
27/01/2025	16:43	17:54	4260	17:13	Nil Sightings
26/02/2025	17:35	18:50	4500	18:11	Nil Sightings
20/03/2025	18:20	19:40	4800	18:51	Nil Sightings
18/03/2025	18:15	19:35	4800	18:45	Nil Sightings
07/04/2025	19:50	21:05	4500	20:20	Nil Sightings

Table I.4: Hen Harrier Roost Watch 2023/2024 Results

Date	Location	Start Time	End Time	Duration of survey (sec)	Sunrise / sunset	Bird No	Sex	Arrival/ departure	Settling / rising	Direction of arrival/ departure	Species-listed	Notes
01/11/2023	509768.52, 680988.93	16:35	18:10	5700	17:06	Nil Sightings	-	-	-	-	-	Nil Sightings
20/11/2023	509863.33, 681422.19	15:53		6000	16:35	1	Male (Grey)	15:51	-	N	HH	Male HH flew west flying approx. 10 secs
20/11/2023	510084.47, 681390.71	15:53	17:35	6000	16:35	1	Female (Brown)	17:00	17:02	W	HH	Arrived from West of site and settled just beside Lake in heath bog (east)
20/11/2023	509867.85, 681372.61	15:53	17:35	6000	16:35	0	-	-	-	-	-	Nil Sightings
18/01/2024	509315.43, 680642.41	16:15	17:49	5200	16:49	Nil sightings	-	-	-	-	-	Facing east, looking from north to south

Date	Location	Start Time	End Time	Duration of survey (sec)	Sunrise / sunset	Bird No	Sex	Arrival/ departure	Settling / rising	Direction of arrival/ departure	Species-listed	Notes
19/03/2024	509876.99, 681417.47	18:00	19:30	5400	18:48	Nil Sightings	-	-	-	-	-	Nil Sightings
01/05/2024	509857.46, 681358.02	20:25	21:55	1800	21:05	Nil sightings	-	-	-	-	-	Nil sightings

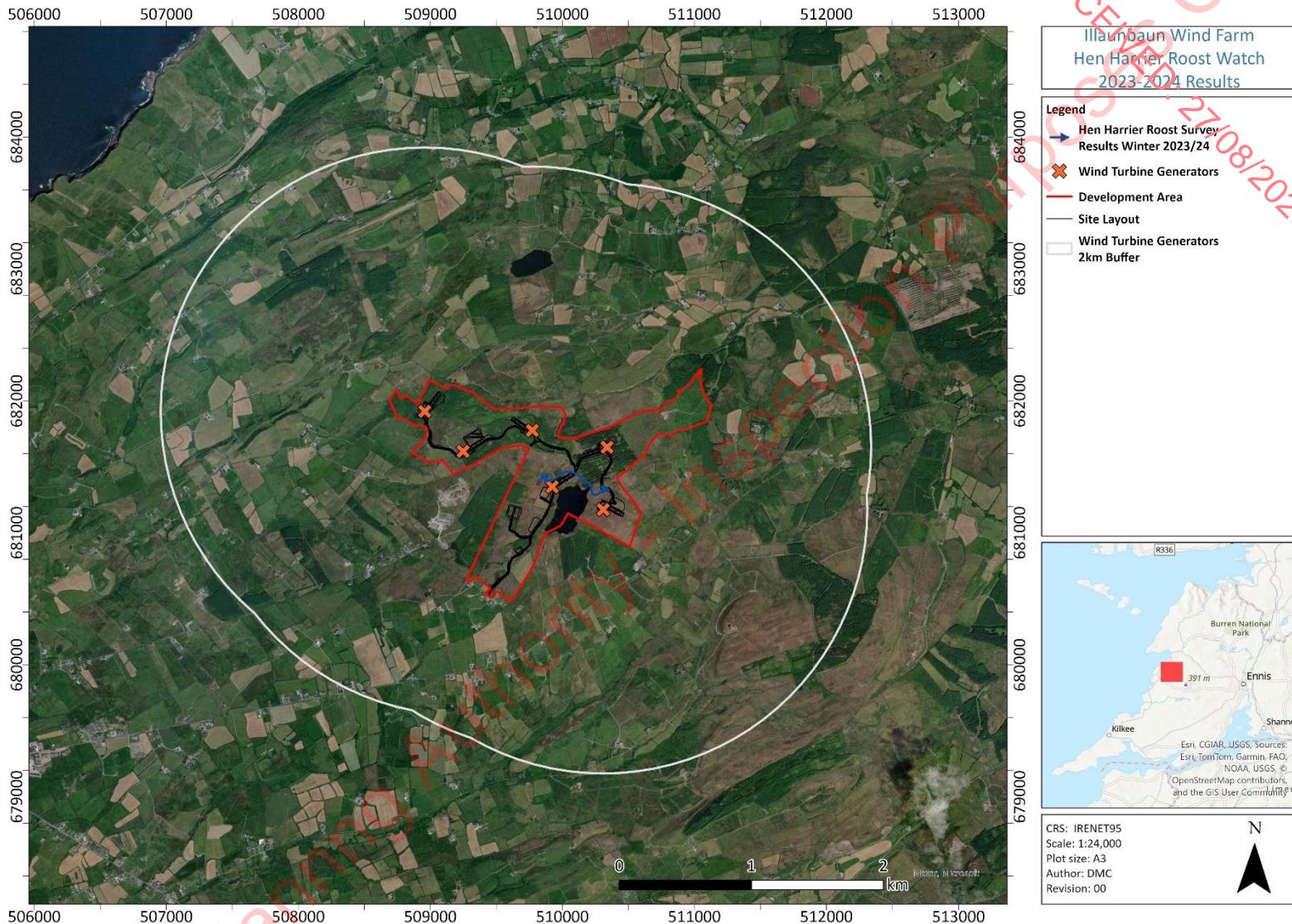


Figure I.1: Hen harrier roost watch 2023/2024 results.

ANNEX J BARN OWL DATA**Table J.1:** Breeding barn owl survey efforts and weather data- Breeding Seasons 2023 and 2024.

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp	Start Time	End Time	Duration of survey (sec)
26/04/2023	ML	Dry	6/8	11	F2	E	15	12:40	14:40	7200
17/07/2023	SID	Constant	8/8	14	F2	SSE	10	21:30	23:10	6000
25/07/2023	NA	None	8/8	16	F1	WSW	16	21:19	23:10	6660
24/08/2023	JOH	Single shower	5/8	15	F2	W	8	20:30	22:05	5700
08/05/2024	NL	None	1/8	8	F1	SSE	17	20:50	22:20	5400
17/06/2024	NL	None	8/8	5	F2	NW	12	21:30	23:00	5600
25/07/2024	NL	None	5/8	7	F3	W	15	21:10	22:30	5400
31/07/2024	KS	None	8/8	24	F1	WNW	17	21:00	22:32	5400

Table J.2: Barn owl suitability survey efforts 2023

Date	Start Time	End Time	Duration of survey (sec)	Time of sighting	Location	Sighting	Evidence	Site Type	Suitability	Notes
26/04/2023	12:40	14:40	7200	13:20	508966, 680904	Nil sightings	Nil sightings	Traditional Agricultural building	High	

Table J.3: Barn owl activity survey results 2023.

Date	Start Time	End Time	Duration of survey (sec)	Time of sighting	Location	Sighting	Evidence	Site Type	Suitability	Notes
17/07/2023	21:30	23:10	6000		508958, 680896	Nil sightings	Nil sightings	Other (specify in notes)		Old abandoned house
25/07/2023	21:19	23:10	6660	23:10	508966, 680904	Nil sightings	Nil sightings	Ruin	High	
24/08/2023	20:30	22:05	5700		509839, 680158	Nil sightings	Nil sightings	Traditional Agricultural building	Intermediate	Another derelict house behind barn that could be another site for surveying Barn Owl

Table J.4: Barn Owl Activity results 2024

Date	Start Time	End Time	Duration of survey (sec)	Time of sighting	Location	Sighting	Evidence	Site Type	Suitability
08/05/2024	20:50	22:20	5400	20:50	508967.69, 680903.88	Nil Sightings	Nil Sightings	Mix of traditional & modern agricultural buildings	High
17/06/2024	21:30	23:00	5600	22:15	509853.81, 680209.23	Nil Sightings	Nil Sightings	Mix of traditional & modern agricultural buildings	Intermediate
25/07/2024	21:10	22:30	5400	21:10	508970.97, 680907.37	Nil Sightings	Nil Sightings	Traditional Agricultural building	Intermediate
31/07/2024	21:00	22:32	5400	22:25	508971.78, 680900.75	Nil Sightings	Nil Sightings	Traditional Agricultural building	Intermediate

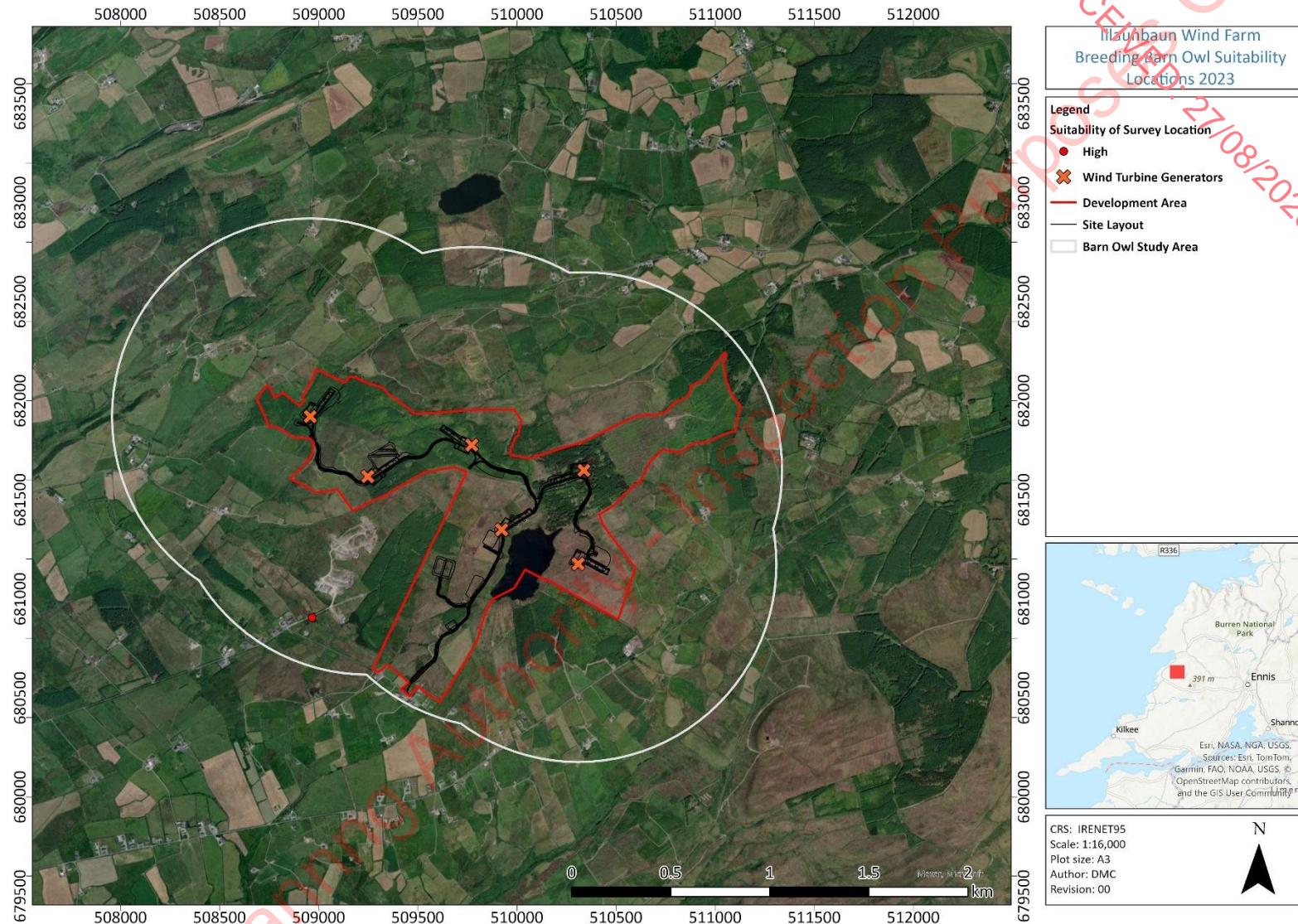


Figure J.1: Illaunbaun Wind Farm barn owl Suitability Results 2023.

ANNEX K: NBDC DATA**Table K.1: NBDC records of bird species in the R08 and R18 Grid Squares.**

Species name	Record count	Date of last record	Designation
Grid Square: R08			
Arctic Tern (<i>Sterna paradisaea</i>)	1	31/12/2001	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Atlantic Puffin (<i>Fratercula arctica</i>)	3	4/6/2019	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Barn Swallow (<i>Hirundo rustica</i>)	27	14/08/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Bar-tailed Godwit (<i>Limosa lapponica</i>)	8	2/5/2023	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Black Guillemot (<i>Cephus grylle</i>)	6	4/9/2018	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Black-legged Kittiwake (<i>Rissa tridactyla</i>)	25	24/04/2021	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Black-tailed Godwit (<i>Limosa limosa</i>)	3	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Black-throated Diver (<i>Gavia arctica</i>)	5	31/12/2011	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Brent Goose (<i>Branta bernicla</i>)	10	19/03/2023	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Coot (<i>Fulica atra</i>)	1	31/12/2001	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Eider (<i>Somateria mollissima</i>)	2	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Grasshopper Warbler (<i>Locustella naevia</i>)	8	20/06/2019	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Greenshank (<i>Tringa nebularia</i>)	12	23/10/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Guillemot (<i>Uria aalge</i>)	16	4/6/2019	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Kestrel (<i>Falco tinnunculus</i>)	13	22/10/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed

Species name	Record count	Date of last record	Designation
Common Linnet (<i>Linaria cannabina</i>)	34	14/08/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Pochard (<i>Aythya ferina</i>)	1	31/12/2001	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Sandpiper (<i>Actitis hypoleucus</i>)	2	29/07/2002	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Scoter (<i>Melanitta nigra</i>)	13	21/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Common Shelduck (<i>Tadorna tadorna</i>)	5	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Snipe (<i>Gallinago gallinago</i>)	12	31/12/2022	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Starling (<i>Sturnus vulgaris</i>)	62	23/12/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Swift (<i>Apus apus</i>)	2	31/07/1991	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Tern (<i>Sterna hirundo</i>)	1	21/05/2008	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Corn Crake (<i>Crex crex</i>)	1	31/07/1972	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Dunlin (<i>Calidris alpina</i>)	16	13/11/2024	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Eurasian Curlew (<i>Numenius arquata</i>)	62	19/12/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Eurasian Oystercatcher (<i>Haematopus ostralegus</i>)	63	21/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Eurasian Teal (<i>Anas crecca</i>)	13	19/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Eurasian Tree Sparrow (<i>Passer montanus</i>)	3	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Eurasian Wigeon (<i>Anas penelope</i>)	5	13/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Eurasian Woodcock (<i>Scolopax rusticola</i>)	1	31/07/1972	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed

Species name	Record count	Date of last record	Designation
European Golden Plover (<i>Pluvialis apricaria</i>)	10	31/12/2022	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
European Shag (<i>Phalacrocorax aristotelis</i>)	19	19/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
European Storm-petrel (<i>Hydrobates pelagicus</i>)	5	18/08/1995	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Gadwall (<i>Anas strepera</i>)	2	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Goldcrest (<i>Regulus regulus</i>)	5	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Goosander (<i>Mergus merganser</i>)	3	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Great Black-backed Gull (<i>Larus marinus</i>)	30	19/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Great Northern Diver (<i>Gavia immer</i>)	15	21/11/2024	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Greater Scaup (<i>Aythya marila</i>)	1	31/12/2001	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Greater White-fronted Goose (<i>Anser albifrons</i>)	1	29/02/1984	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Grey Wagtail (<i>Motacilla cinerea</i>)	17	13/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Hen Harrier (<i>Circus cyaneus</i>)	4	5/3/2022	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Jack Snipe (<i>Lymnocryptes minimus</i>)	1	31/12/2001	Protected Species: Wildlife Acts
Leach's Storm-petrel (<i>Oceanodroma leucorhoa</i>)	1	9/12/2006	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Little Egret (<i>Egretta garzetta</i>)	15	13/11/2024	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts

Species name	Record count	Date of last record	Designation
Little Gull (<i>Larus minutus</i>)	11	7/1/2007	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Long-tailed Duck (<i>Clangula hyemalis</i>)	4	31/12/2011	Protected Species: Wildlife Acts
Meadow Pipit (<i>Anthus pratensis</i>)	44	23/10/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Mediterranean Gull (<i>Larus melanocephalus</i>)	4	5/1/2007	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Merlin (<i>Falco columbarius</i>)	5	31/12/2011	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Northern Fulmar (<i>Fulmarus glacialis</i>)	43	26/08/2021	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Northern Lapwing (<i>Vanellus vanellus</i>)	14	13/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Peregrine Falcon (<i>Falco peregrinus</i>)	4	24/02/2018	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts
Pink-footed Goose (<i>Anser brachyrhynchus</i>)	3	7/1/2007	Protected Species: Wildlife Acts
Purple Sandpiper (<i>Calidris maritima</i>)	4	13/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Red-billed Chough (<i>Pyrrhocorax pyrrhocorax</i>)	22	13/11/2024	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Red-breasted Merganser (<i>Mergus serrator</i>)	5	21/04/2019	Protected Species: Wildlife Acts
Red-throated Diver (<i>Gavia stellata</i>)	10	21/11/2024	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Redwing (<i>Turdus iliacus</i>)	6	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Sandwich Tern (<i>Sterna sandvicensis</i>)	10	24/04/2021	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Tufted Duck (<i>Aythya fuligula</i>)	1	31/12/2001	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed

Species name	Record count	Date of last record	Designation
Velvet Scoter (<i>Melanitta fusca</i>)	5	31/12/2011	Protected Species: Wildlife Acts
Whimbrel (<i>Numenius phaeopus</i>)	7	4/7/2021	Protected Species: Wildlife Acts
Whooper Swan (<i>Cygnus cygnus</i>)	3	23/10/2024	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Willow Warbler (<i>Phylloscopus trochilus</i>)	14	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Grid Square: R18			
Barn Owl (<i>Tyto alba</i>)	2	8/3/2020	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Barn Swallow (<i>Hirundo rustica</i>)	35	20/05/2023	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Black-headed Gull (<i>Larus ridibundus</i>)	9	19/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Common Coot (<i>Fulica atra</i>)	4	5/8/2001	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Grasshopper Warbler (<i>Locustella naevia</i>)	8	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Greenshank (<i>Tringa nebularia</i>)	2	4/8/2001	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Kestrel (<i>Falco tinnunculus</i>)	17	29/12/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Kingfisher (<i>Alcedo atthis</i>)	5	12/8/2020	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Linnet (<i>Linaria cannabina</i>)	19	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Pochard (<i>Aythya ferina</i>)	1	31/12/2001	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Redshank (<i>Tringa totanus</i>)	3	31/07/1991	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Common Scoter (<i>Melanitta nigra</i>)	1	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Common Snipe (<i>Gallinago gallinago</i>)	15	30/11/2019	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Common Starling (<i>Sturnus vulgaris</i>)	47	29/12/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed

Species name	Record count	Date of last record	Designation
Common Swift (<i>Apus apus</i>)	3	31/07/1991	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Corn Crake (<i>Crex crex</i>)	2	31/07/1991	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Eurasian Curlew (<i>Numenius arquata</i>)	6	17/12/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Eurasian Oystercatcher (<i>Haematopus ostralegus</i>)	2	26/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Eurasian Teal (<i>Anas crecca</i>)	6	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Eurasian Tree Sparrow (<i>Passer montanus</i>)	3	08/03/2020	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Eurasian Wigeon (<i>Anas penelope</i>)	5	16/11/2018	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Eurasian Woodcock (<i>Scolopax rusticola</i>)	6	8/1/2018	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Goldcrest (<i>Regulus regulus</i>)	26	19/11/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Great Black-backed Gull (<i>Larus marinus</i>)	1	29/02/1984	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Great Cormorant (<i>Phalacrocorax carbo</i>)	11	03/03/2023	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Great Crested Grebe (<i>Podiceps cristatus</i>)	1	31/07/1972	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Great Northern Diver (<i>Gavia immer</i>)	1	31/12/2011	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Greater White-fronted Goose (<i>Anser albifrons</i>)	1	29/02/1984	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Grey Wagtail (<i>Motacilla cinerea</i>)	23	1/4/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Hen Harrier (<i>Circus cyaneus</i>)	5	19/06/2022	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Herring Gull (<i>Larus argentatus</i>)	3	29/12/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed

Species name	Record count	Date of last record	Designation
House Martin (<i>Delichon urbicum</i>)	6	10/07/2022	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
House Sparrow (<i>Passer domesticus</i>)	38	28/12/2024	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Jack Snipe (<i>Lymnocryptes minimus</i>)	2	31/12/2011	Protected Species: Wildlife Acts
Little Egret (<i>Egretta garzetta</i>)	5	06/11/2024	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts
Little Grebe (<i>Tachybaptus ruficollis</i>)	3	5/8/2001	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Mallard (<i>Anas platyrhynchos</i>)	22	27/02/2021	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Meadow Pipit (<i>Anthus pratensis</i>)	35	10/7/2022	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Merlin (<i>Falco columbarius</i>)	1	31/07/1972	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Mew Gull (<i>Larus canus</i>)	1	29/02/1984	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Mute Swan (<i>Cygnus olor</i>)	9	3/8/2015	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Northern Lapwing (<i>Vanellus vanellus</i>)	10	20/10/2021	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Red Grouse (<i>Lagopus lagopus</i>)	3	31/07/1991	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Red-breasted Merganser (<i>Mergus serrator</i>)	2	31/12/2001	Protected Species: Wildlife Acts
Redwing (<i>Turdus iliacus</i>)	12	1/3/2018	Protected Species: Wildlife Acts Birds of Conservation Concern - Red-listed
Sand Martin (<i>Riparia riparia</i>)	5	4/8/2001	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Sky Lark (<i>Alauda arvensis</i>)	28	30/05/2020	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Spotted Flycatcher (<i>Muscicapa striata</i>)	1	31/07/1972	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Tufted Duck (<i>Aythya fuligula</i>)	3	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Velvet Scoter (<i>Melanitta fusca</i>)	1	31/12/2011	Protected Species: Wildlife Acts

Species name	Record count	Date of last record	Designation
Water Rail (<i>Rallus aquaticus</i>)	3	31/12/2011	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Whinchat (<i>Saxicola rubetra</i>)	1	31/07/1972	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Whooper Swan (<i>Cygnus cygnus</i>)	13	12/12/2022	Protected Species: EU Birds Directive >> Annex I Bird Species Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed
Willow Warbler (<i>Phylloscopus trochilus</i>)	35	7/4/2023	Protected Species: Wildlife Acts Birds of Conservation Concern - Amber-listed