



TOBIN

Bord na Móna

**Derrygreenagh Wind and
Solar**

Winter Season 2024-2025

Bird Surveys: Summary Report

Bord na Móna

BUILT ON KNOWLEDGE

Document Control Sheet	
Document Reference	Winter Season 2024 – 2025 Bird Surveys: Summary Report
Client:	Bord na Moná
Project Reference	12334

Rev	Description	Author	Date	Reviewer	Date	Approval	Date
D01	Final	JM	27/06/2025	JS	27/06/2025	LS	27/06/2025

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1. BACKGROUND

This report summarises the results of bird surveys undertaken by TOBIN at the proposed Derrygreenagh Wind and Solar Farm site during the Winter Season 2024 - 2025, for the survey period of October to March.

2. SUMMARY OF LOCAL BIRD ACTIVITY DURING THE WINTER SEASON 2024-2025

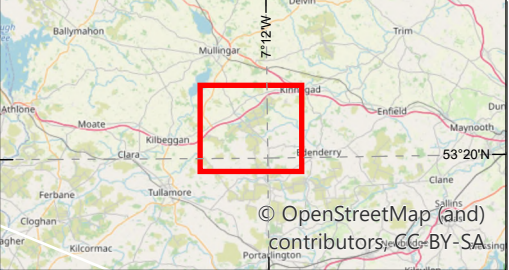
2.1 VANTAGE POINT SURVEYS

The Vantage Point (VP) surveys were carried in accordance with the methodology set out by the Scottish Natural Heritage (SNH) guidelines (SNH, 2017). Thirteen (13) VPs across the Derrygreenagh Wind and Solar Farm site were set at fixed locations, which were strategically positioned to provide a maximum viewshed of the survey area over the survey period, the locations of which can be seen in Figure 2-1. The viewshed of a given VP extended to a distance of no greater than 2km and included an arc of no greater than 180 degrees, as per SNH (2017), which encompassed the study area for the VP surveys.

The 13 VPs were surveyed for 6 hours each on each month, summing up to a total of 468 hours for the survey period of October 2024 to March 2025 (Table 2-1).

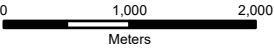
Table 2-1: Summary of Winter Vantage Point Survey Effort Between October 2024 to March 2025

Vantage point	Oct	Nov	Dec	Jan	Feb	Mar	Total hours
1	6	6	6	6	6	6	36
2	6	6	6	6	6	6	36
3	6	6	6	6	6	6	36
4	6	6	6	6	6	6	36
5	6	6	6	6	6	6	36
6	6	6	6	6	6	6	36
7	6	6	6	6	6	6	36
8	6	6	6	6	6	6	36
9	6	6	6	6	6	6	36
10	6	6	6	6	6	6	36
11	6	6	6	6	6	6	36
12	6	6	6	6	6	6	36
13	6	6	6	6	6	6	36
Total hours	78	78	78	78	78	78	468



Legend

- Derrygreenagh Wind and Solar -Proposed Developments
- Proposed wind farm
- 500m buffer
- VPs
- Viewshed Coverage



NOTES

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING/
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE/
3. ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES/
4. ALL LEVELS RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

A	18/06/2025	First Issue	K.K	J..M
Rev	Date	Description	By	Chkd.

Client: **Bord na Móna**

Project: **Bord na Mona - Derrygreenagh Wind and Solar**

Title: **Figure 2-1: Vantage Points Survey Locations and Viewshed**

Scale @ A3: 1:60,000

Prepared by: K.Kale Checked by: J.Martins Date: June 2025

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Map Ref: 11458-034-VP-Oct..Dec.24-TOB-A Draft: **A**

The VP surveys registered observations of 21 species flying within VP viewsheds over this survey period (Table 2-2). European Golden Plover (*Pluvialis apricaria*) was the most abundant species observed flying during the VP surveys, with 3686 sightings. Second most common species see was Northern Lapwing (*Vanellus Vanellus*), with 2938 sightings. Both European Golden Plover and Northern Lapwing were seen regularly flying in large flocks over the Derrygreenagh Wind and Solar Farm site.

Common Kestrel (*Falco tinnunculus*) and Common Buzzard (*Buteo buteo*) were the most frequently recorded raptor species with 98 and 86 sightings respectively. Other species that were recorded often and require highlighting were Lesser Black-backed Gull (*Larus fuscus*). Whooper Swan (*Cygnus cygnus*) and Mute Swan (*Cygnus olor*). Species observations can be seen in Figure 2-2 and Figure 2-3.

Table 2-2: Summary of Vantage Point Surveys Records of Target Species in Flight Between October 2024 to March 2025

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
European Golden Plover	Red	-	1395	670	100	215	1131	175	3686
Northern Lapwing	Red	-	325	605	1170	36	772	30	2938
Black-headed Gull	Amber	-	-	-	2	-	5	392	399
Whooper Swan	Amber	Annex I	23	16	12	37	-	33	121
Mute Swan	Amber	-	18	37	10	30	14	3	112
Common Kestrel	Red	-	19	17	14	17	15	16	98
Common Buzzard	Green	-	14	3	7	13	20	29	86
Mallard	Amber	-	3	-	-	25	3	14	45
Great Cormorant	Amber	-	5	1	2	9	12	7	36
Hen Harrier	Amber	Annex I	8	2	3	7	4	1	25
Eurasian Sparrowhawk	Green	Annex I	3	4	-	5	6	4	22
Grey Heron	Green	-	1	2	-	3	8	4	18
Lesser Black-backed Gull	Amber	-	10	-	1	3	1	-	15
Peregrine Falcon	Green	Annex I	1	-	1	6	-	2	10
Eurasian Curlew	Red	-	-	-	8	-	-	-	8

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Common Snipe	Red	-	7	-	-	-	-	-	7
Merlin	Amber	Annex I	-	2	3	-	2	-	7
Eurasian Woodcock	Red	-	-	-	2	-	-	-	2
Little Egret	Green	Annex I	1	1	-	-	-	-	2
Western Marsh Harrier	Amber	Annex I	1	-	-	-	-	-	1
Great Egret	Green	Annex I	-	-	-	-	1	-	1

Table 2-3 presents the observations at each of the VPs. The highest diversity and abundance of target species in flight was recorded at VP10, with 2571 observations comprising of 17 target species. Other VP locations with abundant flight activity included VP8 (1674 sightings of 13 target species), VP9 (795 sightings of 14 target species), and VP4 (535 sightings of 10 target species).

Table 2-3: Summary of Wintering Birds Observations Per Vantage Point (Target Species Flying Observation –October 2024 to March 2025)

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
VP1									
European Golden Plover	Red	Annex I	-	75	-	-	60	-	135
Common Kestrel	Red	-	4	1	1	2	1	1	10
Common Buzzard	Green	-	1	1	-	1	-	3	6
Whooper Swan	Amber	Annex I	-	-	5	-	-	-	5
Peregrine Falcon	Green	Annex I	-	-	1	-	-	-	1
Grey Heron	Green	-	1	-	-	-	-	-	1
VP2									
European Golden Plover	Red	Annex I	26	150	100	-	25	70	371
Common Buzzard	Green	-	1	1	1	-	2	2	7
Common Kestrel	Red	-	-	2	1	1	1	1	6
Whooper Swan	Amber	Annex I	3	-	-	-	-	-	3

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Eurasian Sparrowhawk	Green	-	-	-	-	1	-	-	1
VP3									
European Golden Plover	Red	Annex I	70	-	-	25	-	-	95
Common Buzzard	Green	-	2		-	2	4	4	12
Common Kestrel	Red	-	-	1	-	1	1	1	4
Eurasian Sparrowhawk	Green	-	-	1	-	-	1	-	2
VP4									
European Golden Plover	Red	Annex I	296	200	-	-	-	-	496
Northern Lapwing	Red	-	-	-	-	18	-	-	18
Common Kestrel	Red	-	-	1	-	4	-	2	7
Common Buzzard	Green	-	-	-	-	2	5	-	7
Grey Heron	Green	-	-	-	-	1	-	1	2
Mallard	Amber	-	-	-	-	-	-	1	1
Little Egret	Green	-	-	1	-	-	-	-	1
Eurasian Sparrowhawk	Green	Annex I	1	-	-	-	-	-	1
Lesser Black-backed Gull	Amber	-	-	-	-	-	1	-	1
Great Cormorant	Amber	-	-	-	-	-	1	-	1
VP5									
European Golden Plover	Red	Annex I	-	70	-	-	39	-	109
Common Kestrel	Red	-	2	1	-	1	2	2	8
Common Buzzard	Green	-	1	-	-	2	-	3	6
Whooper Swan	Amber	Annex I	-	-	-	-	-	2	2
Grey Heron	Green	-	-	-	-	-	1	-	1
Eurasian Sparrowhawk	Green	-	-	-	-	1	-	-	1
VP6									

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
European Golden Plover	Red	Annex I	12	-	-	-	-	65	77
Black-headed Gull	Amber	-	-	-	-	-	-	31	31
Whooper Swan	Amber	Annex I	10	4	-	2	-	-	16
Great Cormorant	Amber	-	1	1	1	2	3	3	11
Lesser Black-backed Gull	Amber	-	8	-	-	-	-	-	8
Hen Harrier	Amber	Annex I	-	-	2	3	1	-	6
Mute Swan	Amber	-	-	-	-	4	2	-	6
Common Buzzard	Green	-	1	-	-	1	-	4	6
Common Kestrel	Red	-	2	-	1	-	-	2	5
Peregrine Falcon	Green	Annex I	-	-	-	1	-	1	2
Grey Heron	Green	-	-	2	-	-	-	-	2
Merlin	Amber	Annex I	-	1	-	-	-	-	1
Eurasian Sparrowhawk	Green	-	-	-	-	-	1	-	1
Great Egret	Green	Annex I	-	-	-	-	1	-	1
VP7									
European Golden Plover	Red	Annex I	275	-	-	-	-	40	315
Common Buzzard	Green	-	2	-	3	3	7	4	19
Common Kestrel	Red	-	1	3	2	3	2	-	11
Northern Lapwing	Red	-	-	-	-	-	6	3	9
Eurasian Curlew	Red	-	-	-	8	-	-	-	8
Eurasian Sparrowhawk	Green	-	-	1	-	2	1	4	8
Mallard	Amber	-	-	-	-	-	3	2	5
Mute Swan	Amber	-	-	3	-	-	-	-	3
Whooper Swan	Amber	Annex I	-	-	-	2	-	-	2
Peregrine Falcon	Green	Annex I	-	-	-	-	-	1	1
VP8									

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Northern Lapwing	Red	-	-	596	420	16	-	1	1033
European Golden Plover	Red	Annex I	16	-	-	190	250	-	456
Black-headed Gull	Amber	-	-	-	-	-	-	98	98
Whooper Swan	Amber	Annex I	3	-	-	3	-	31	37
Mute Swan	Amber	-	-	10	-	8	-	-	18
Common Kestrel	Red	-	3	-	2	2	2	1	10
Common Snipe	Red	-	7	-	-	-	-	-	7
Common Buzzard	Green	-	-	-	1	-	-	3	4
Hen Harrier	Amber	Annex I	1	-	-	-	3	-	4
Grey Heron	Green	-	-	-	-	1	3	-	4
Merlin	Amber	Annex I	-	-	-	-	1	-	1
Eurasian Sparrowhawk	Green	-	-	1	-	-	-	-	1
Peregrine Falcon	Green	Annex I	-	-	-	1	-	-	1
VP9									
European Golden Plover	Red	Annex I	590	-	-	-	90	-	680
Black-headed Gull	Amber	-	-	-	-	-	-	33	33
Northern Lapwing	Red	-	-	9	-	-	11	-	20
Great Cormorant	Amber	-	4	-	1	5	7	-	17
Mute Swan	Amber	-	1	4	3	3	2	1	14
Common Kestrel	Red	-	1	2	2	1	3	1	10
Whooper Swan	Amber	Annex I	-	7	-	-	-	-	7
Common Buzzard	Green	-	-	1	-	-	-	2	3
Eurasian Sparrowhawk	Green	-	-	-	-	1	2	-	3
Grey Heron	Green	-	-	-	-	1	1	1	3
Mallard	Amber	-	-	-	-	-	-	2	2
Hen Harrier	Amber	Annex I	1	-	-	-	-	-	1

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Merlin	Amber	Annex I	-	1	-	-	-	-	1
Peregrine Falcon	Green	Annex I	-	-	-	1	-	-	1
VP10									
Northern Lapwing	Red	-	270	-	750	2	305	23	1350
European Golden Plover	Red	Annex I	110	135	-	-	667	-	912
Black-headed Gull	Amber	-	-	-	-	-	5	230	235
Whooper Swan	Amber	Annex I	5	5	7	-	-	-	17
Common Kestrel	Red	-	4	2	4	-	3	3	16
Common Buzzard	Green	-	2	-	2	2	2	3	11
Hen Harrier	Amber	Annex I	6	-	-	2	-	-	8
Merlin	Amber	Annex I	-	-	3	-	1	-	4
Peregrine Falcon	Green	Annex I	1	-	-	2	-	-	3
Great Cormorant	Amber	-	-	-	-	-	-	3	3
Mute Swan	Amber	-	-	-	2	1	-	-	3
Eurasian Woodcock	Red	-	-	-	2	-	-	-	2
Lesser Black-backed Gull	Amber	-	2	-	-	-	-	-	2
Eurasian Sparrowhawk	Green	-	1	-	-	-	1	-	2
Grey Heron	Green	-	-	-	-	-	1	-	1
Little Egret	Green	Annex I	1	-	-	-	-	-	1
Western Marsh Harrier	Amber	Annex I	1	-	-	-	-	-	1
VP11									
Northern Lapwing	Red	-	55	-	-	-	-	-	55
European Golden Plover	Red	Annex I	-	40	-	-	-	-	40
Mallard	Amber	-	3	-	-	-	-	2	5
Mute Swan	Amber	-	-	2	-	-	-	-	2

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Common Kestrel	Red	-	-	-	1	-	-	-	1
Hen Harrier	Amber	Annex I	-	-	1	-	-	-	1
VP12									
Northern Lapwing	Red	-	-	-	-	-	300	3	303
Mute Swan	Amber	-	17	18	4	8	8	2	57
Mallard	Amber	-	-	-	-	25	-	7	32
Whooper Swan	Amber	Annex I	-	-	-	30	-	-	30
Common Kestrel	Red	-	-	4	-	2	-	-	6
Great Cormorant	Amber	-	-	-	-	2	1	1	4
Lesser Black-backed Gull	Amber	-	-	-	1	3	-	-	4
Common Buzzard	Green	-	2	-	-	-	-	-	2
Black-headed Gull	Amber	-	-	-	2	-	-	-	2
Grey Heron	Green	-	-	-	-	-	1	1	2
Hen Harrier	Amber	Annex I	-	1	-	-	-	1	2
Peregrine Falcon	Green	Annex I	-	-	-	1	-	-	1
VP13									
Northern Lapwing	Red	-	-	-	-	-	150	-	150
Mute Swan	Amber	-	-	-	1	6	2	-	9
Common Kestrel	Red	-	2	-	-	-	-	2	4
Hen Harrier	Amber	Annex I	-	1	-	2	-	-	3
Common Buzzard	Green	-	2	-	-	-	-	1	3
Eurasian Sparrowhawk	Green	-	1	1	-	-	-	-	2
Whooper Swan	Amber	Annex I	2	-	-	-	-	-	2
Grey Heron	Green	-	-	-	-	-	1	1	2

During the VP surveys, 16 different species of birds were recorded not in flight (Table 2-4). Observations included a total of 367 birds swimming, roosting or foraging within VP viewsheds.

A large number of Mute Swans (171 records) were recorded during the VP surveys over the survey period, representing the most frequently observed non-flying species at the Derrygreenagh Wind and Solar Farm between October 2024 to March 2025.

Table 2-4: Summary of Wintering Birds Observations During Vantage Point Surveys (Target Species Non-Flying Observation –October 2024 to March 2025)

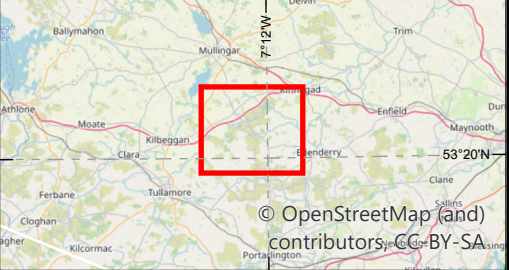
Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Mute Swan	Amber	-	89	29	18	10	14	11	171
Tufted Duck	Amber	-	76	6	-	1	-	20	103
Eurasian Wigeon	Amber	-	7	12	-	7	-	-	26
Eurasian Teal	Amber	-	-	6	-	-	8	2	16
Great Cormorant	Amber	-	-	-	-	-	-	14	14
Redwing	Red	-	-	-	-	8	-	-	8
Mallard	Amber	-	-	-	2	2	2	2	8
Whooper Swan	Amber	Annex I	-	-	-	-	-	7	7
Great Crested Grebe	Amber	-	1	1	1	-	-	1	4
Common Snipe	Red	-	-	-	-	-	-	3	3
Merlin	Amber	Annex I	-	-	1	1	-	-	2
Eurasian Sparrowhawk	Green	-	-	1	-	-	-	-	1
Common Redshank	Red	-	-	-	1	-	-	-	1
Common Moorhen	Green	-	-	-	-	-	-	1	1
Common Kestrel	Red	-	-	1	-	-	-	-	1
Smew	Amber	Annex I	-	-	1	-	-	-	1

The location with the most abundance and diversity of species was VP 6, where 9 different target species were recorded not in-flight, with notable numbers of Mute Swan, Tufted Duck (*Aythya fuligula*), and Eurasian Wigeon (*Mareca Penelope*). The viewshed of this VP overlooks the Drumman quarry ponds, resulting in a high number of water bird records (Table 2-5).

Table 2-5: Summary of Wintering Birds Observations Per Vantage Point Surveys (Target Species Non-Flying Observation – October 2024 to March 2025)

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
VP3									
Redwing	Red	-	-	-	-	8	-	-	8
Common Kestrel	Red	-	-	1	-	-	-	-	1
Eurasian Sparrowhawk	Green	-	-	1	-	-	-	-	1
VP4									
Mute Swan	Amber	-	-	-	-	-	-	2	2
Eurasian Teal	Amber	-	-	2	-	-	-	-	2
VP6									
Mute Swan	Amber	-	84	17	13	10	8	5	137
Tufted Duck	Amber	-	76	6	-	1	-	4	87
Eurasian Wigeon	Amber	-	7	12	-	7	-	-	26
Eurasian Teal	Amber	-	-	4	-	-	8	2	14
Mallard	Amber	-	-	-	2	2	2	2	8
Great Crested Grebe	Amber	-	1	1	1	-	-	1	4
Great Cormorant	Amber	-	-	-	-	-	-	3	3
Common Redshank	Red	-	-	-	1	-	-	-	1
Smew	Amber	Annex I	-	-	1	-	-	-	1
VP8									
Common Snipe	Red	-	-	-	-	-	-	2	2
VP9									
Common Snipe	Red	-	-	-	-	-	-	1	1
VP10									
Merlin	Amber	Annex I	-	-	1	1	-	-	2

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Common Moorhen	Green	-	-	-	-	-	-	1	1
VP12									
Mute Swan	Amber	-	5	12	5	-	6	4	32
Tufted Duck	Amber	-	-	-	-	-	-	16	16
Great Cormorant	Amber	-	-	-	-	-	-	11	11
Whooper Swan	Amber	Annex I	-	-	-	-	-	7	7



Legend

Derrygreenagh Wind and Solar - Proposed Developments

Proposed Wind Farm 500m Buffer

Non-Flight Observations

Common Moorhen

Common Snipe

Eurasian Teal

Eurasian Wigeon

Great Cormorant

Great Crested Grebe

Mallard

Mute Swan

Tufted Duck

Whooper Swan

Common Buzzard

Common Kestrel

Eurasian Sparrowhawk

European Golden Plover

Great Cormorant

Grey Heron

Hen Harrier

Lesser Black-backed Gull

Mallard

Mute Swan

Northern Lapwing

Peregrine Falcon

Whooper Swan

Great Egret

Flightlines

Black-headed Gull

0 2,000 Meters

NOTES

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING/
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE/
3. ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES/
4. ALL LEVELS RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

A	18/06/2025	First Issue	K.K	J.M	
Rev	Date	Description	By	Chkd.	

Client:

Bord na Móna

Project:

Bord na Mona -
Derrygreenagh Wind and Solar

Title:

Figure 2-3: Vantage Point Survey
January-March 2025 Observations

Scale @ A3: 1:60,000

Prepared by: K.Kale Checked by: J.Martins Date: June 2025

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Map Ref: 11458-036-VP-Jan..Mar25-TOB-A Draft: A

2.2 I-WeBS/WATERBIRD SURVEY

The I-WeBS/Waterbird survey involves conducting monthly counts during the survey season. Counts were conducted in wetland habitat locations within a Zone of Influence (Zol), encompassing the proposed development site and within a 10km buffer. Survey site locations can be seen in the Figure 2-4.

Counts at each wetland habitat site were conducted on the 'look-see' basis (Bibby et al. 2000), which involved scanning across the survey area and counting all the birds seen. Birds were recorded on a count form, along with relevant information, including numbers of waterbirds; the presence of marked birds (leg-ringed or neck-collared); and weather conditions.

A total of 5248 observations of 32 species were recorded within the Zone of Influence (Zol) during I-WeBS/Waterbirds Surveys conducted between October 2024 and March 2025. The surveys identified the Derryarkin and Drumman quarry ponds as important locations for wintering bird species, particularly swans, ducks, and waders. The summary of the I-WeBS/Waterbird surveys can be found in Table 2-6.

Table 2-6: Summary of IWeBS/Waterbird Surveys Recorded Between October 2024 - March 2025.

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Mute Swan	Amber	-	110	208	212	266	197	232	1225
European Golden Plover	Red	Annex I	22	175	647	66	6	-	916
Northern Lapwing	Red	-	-	-	22	75	376	25	498
Mallard	Amber	-	51	100	65	127	85	67	495
Tufted Duck	Amber	-	165	22	74	87	72	70	490
Eurasian Coot	Amber	-	124	3	2	155	68	13	365
Whooper Swan	Amber	Annex I	-	2	91	120	121	11	345
Eurasian Teal	Amber	-	53	33	36	43	51	31	247
Eurasian Wigeon	Amber	-	12	8	18	30	62	35	165
Common Snipe	Red	-	8	21	18	24	34	31	136
Little Grebe	Amber	-	14	4	4	16	12	21	71
Grey Heron	Green	-	11	10	10	12	8	6	57
Great Cormorant	Amber	-	5	5	14	3	10	8	45
Black-headed Gull	Amber	-	1	-	1	8	-	20	30

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Great Crested Grebe	Amber	-	2	4	2	8	6	6	28
Common Moorhen	Green	-	1	2	4	1	6	8	22
Common Buzzard	Red	-	2	1	2	5	1	5	16
Little Egret	Green	Annex I	5	4	3	-	1	3	16
Common Ringed Plover	Amber	-	-	-	-	-	10	4	14
Common Kestrel	Red	-	6	1	1	1	2	2	13
Eurasian Curlew	Red	-	-	-	-	-	12	-	12
Common Goldeneye	Red	-	-	-	-	8	-	-	8
Northern Shoveler	Red	-	-	-	-	-	-	8	8
Great Egret	Green	Annex I		2	3	1	1	1	8
Eurasian Sparrowhawk	Green	-	1	1	1	-	1	-	4
Common Redshank	Red	-	-	-	-	1	1	2	4
Common Pochard	Red	-	-	3	-	-	-	-	3
Water Rail	Green	-	1	-	1	-	-	-	2
Merlin	Amber	Annex I		1	-	1	-	-	2
Common Kingfisher	Amber	Annex I	1	-	-	-	-	-	1
Common Greenshank	Green	-	-	-	-	1	-	-	1
Hen Harrier	Amber	Annex I	-	-	-	1	-	-	1

Mute Swan was the most abundant species recorded, with 1225 sightings within the Derrygreenagh Wind and Solar Farm site and within the 10 km buffer zone. Large numbers of Mute Swan were consistently recorded throughout the survey period at Drumman quarry ponds. Whooper Swans were also regularly observed during I-WeBS/Waterbird survey at Derryarkin quarry ponds.

Drumman and Derryarkin quarry ponds were sites of regular sightings of wintering European Golden Plover, Mallard (*Anas platyrhynchos*), Eurasian Widgeon, and Eurasian Teal (*Anas crecca*).

The comprehensive list of species recorded at each survey site during the I-WeBS/Waterbird surveys can be found in Table 2-7.

Table 2-7. Distribution of IWeBS/Waterbird Survey Bird Activity Between October 2024 to March 2025

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Site 2									
Northern Lapwing	Red	-	-	-	-	12	-	12	24
Whooper Swan	Amber	Annex I	-	-	-	6	-	-	6
Mallard	Amber	-	2	-	-	-	-	4	6
Grey Heron	Green	-	1	-	-	-	-	-	1
Site 3									
Eurasian Coot	Amber	-	120	-	150	-	63	12	345
Tufted Duck	Amber	-	45	-	32	55	-	-	132
Mute Swan	Amber	-	12	-	12	15	35	18	92
Mallard	Amber	-	10	-	12	12	6	8	48
Northern Lapwing	Red	-	-	-	45	-	-	-	45
Little Grebe	Amber	-	8	-	4	8	3	8	31
Black-headed Gull	Amber	-	-	-	-	-	-	16	16
Great Crested Grebe	Amber	-	2	-	2	2	2	6	14
Great Cormorant	Amber	-	-	-	-	2	2	4	8
Common Goldeneye	Red	-	-	-	-	8	-	-	8
Grey Heron	Green	-	2	-	-	1	-	-	3
Site 5									
Common Snipe	Red	-	-	-	2	3	18	19	42
Eurasian Teal	Amber	-	-	-	12	6	-	-	18
Site 6									
Eurasian Wigeon	Amber	-	-	-	-	20	-	-	20
Black-headed Gull	Amber	-	-	-	-	8	-	-	8
Eurasian Teal	Amber	-	-	-	-	8	-	-	8

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Mallard	Amber	-	-	-	-	4	-	-	4
Site 7									
Eurasian Wigeon	Amber	-	12	6	18	10	56	35	137
Eurasian Teal	Amber	-	8	4	16	8	7	10	53
Mallard	Amber	-	6	-	6	12	2	-	26
Northern Shoveler	Red	-	-	-	-	-	-	8	8
Eurasian Coot	Amber	-	2	-	-	3	1	-	6
Common Snipe	Red	-	-	3	-	-	-	3	6
Mute Swan	Amber	-	2	1	2	-	-	-	5
Common Moorhen	Amber	-	1	-	3	-	-	-	4
Grey Heron	Green	-	-	-	1	1	-	-	2
Site 9									
European Golden Plover	Red	Annex I	-	163	35	-	-	-	198
Mallard	Amber	-	8	-	8	8	4	3	31
Northern Lapwing	Red	-	-	-	22	-	-	-	22
Eurasian Teal	Amber	-	-	-	-	-	16	4	20
Eurasian Coot	Amber	-	2	-	2	2	4	1	11
Common Moorhen	Green	-	-	2	-	1	-	2	5
Common Snipe	Red	-	-	-	-	-	4	-	4
Grey Heron	Green	-	-	1	1	-	1	-	3
Little Grebe	Amber	-	1	-	-	-	-	1	2
Site 11									
Mallard	Amber	-	2	4	6	2	8	4	26
Little Grebe	Amber	-	5	4	2	4	4	3	22
Mute Swan	Amber	-	2	2	2	2	2	2	12

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Grey Heron	Green	-	1	1	-	-	2	1	5
Common Moorhen	Green	-	-	-	-	-	1	-	1
Site 12									
Eurasian Teal	Amber	-	25	12	-	12	16	12	181
Mallard	Amber	-	8	16	-	16	6	16	90
Common Snipe	Red	-	1	1	-	-	2	--	14
Site 14									
Common Kestrel	Red	-	-	-	-	-	-	1	1
Common Buzzard	Green	-	-	-	-	-	1	-	1
Site 15									
Common Kestrel	Red	-	-	-	-	1	-	-	1
Grey Heron	Green	-	-	-	-	1	-	-	1
Common Moorhen	Green	-	-	-	1	-	-	-	1
Site 16									
Whooper Swan	Amber	Annex I	-	-	56	-	-	-	56
Mute Swan	Amber	-	-	-	8	-	2	-	10
Little Grebe	Amber	-	-	-	-	-	2	3	5
Mallard	Amber	-	-	-	-	-	-	4	4
Common Snipe	Red	-	-	-	-	-	2	-	2
Eurasian Coot	Amber	-	-	1	-	-	-	-	1
Common Moorhen	Green	-	-	-	-	-	-	1	1
Site 17									
Northern Lapwing	Red	-	-	-	-	2	250	-	252
Whooper Swan	Amber	Annex I	-	-	-	62	72	11	145
Mute Swan	Amber	-	-	-	-	2	-	8	10

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Common Kestrel	Red	-	-	-	-	-	-	1	1
Site 18									
Mallard	Amber	-	-	13	-	18	-	2	33
Mute Swan	Amber	-	6	11	6	2	5	2	32
Tufted Duck	Amber	-	-	-	-	-	8	12	20
Eurasian Curlew	Red	-	-	-	-	-	12	-	12
Whooper Swan	Amber	Annex I	-	-	8	4	-	-	12
Black-headed Gull	Amber	-	1	-	-	-	-	4	5
Great Crested Grebe	Amber	-	-	1	-	-	-	-	1
Grey Heron	Green	-	-	-	-	-	-	1	1
Site 19									
Mute Swan	Amber	Annex I	-	92	84	121	48	4	349
Tufted Duck	Amber	-	-	-	74	-	18	-	92
Mallard	Amber	-	-	-	10	20	10	2	42
Eurasian Teal	Amber	-	20	-	-	-	-	-	20
Great Cormorant	Amber	-	-	-	8	-	3	-	11
Great Crested Grebe	Amber	-	-	-	1	4	3	-	8
Common Ringed Plover	Amber	-	-	-	-	-	4	-	4
Grey Heron	Green	-	-	-	1	1	1	-	3
Common Kestrel	Red	-	1	-	-	-	-	-	1
Merlin	Amber	Annex I	-	-	-	1	-	-	1
Site 20									
Mute Swan	Amber	-	46	33	72	84	44	8	287
Tufted Duck	Amber	-	120	-	-	-	32	33	185
Mallard	Amber	-	4	-	-	9	-	2	15

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Great Cormorant	Amber	-	3	5	1	-	1	-	10
Grey Heron	Green	-	-	-	3	-	1	-	4
Eurasian Teal	Amber	-	-	2	-	-	-	-	2
Great Crested Grebe	Amber	-	-	-	1	-	-	-	1
Site 21									
Mute Swan	Amber	-	-	18	6	-	-	160	184
Tufted Duck	Amber	-	-	22	-	-	12	25	59
Eurasian Teal	Amber	-	-	8	-	-	-	-	8
Grey Heron	Green	-	-	1	1	1	-	1	4
Mallard	Amber	-	-	-	-	-	-	4	4
Great Cormorant	Amber	-	-	-	1	-	-	2	3
Common Pochard	Red	-	-	3	-	-	-	-	3
Great Crested Grebe	Amber	-	-	2	-	-	1	-	3
Common Snipe	Red	-	-	-	-	1	-	-	1
Site 22									
Mute Swan	Amber	-	22	15	8	12	49	5	111
Grey Heron	Green	-	-	1	-	1	-	-	2
Little Grebe	Amber	-	-	-	-	-	-	2	2
Common Moorhen	Green	-	-	-	-	-	2	-	2
Common Buzzard	Green	-	-	-	-	1	-	-	1
Great Cormorant	Amber	-	1	-	-	-	-	-	1
Site 23									
Mute Swan	Amber	-	-	21	3	-	-	2	26
Mallard	Amber	-	-	-	4	-	4	-	8
Eurasian Wigeon	Amber	-	-	2	-	-	6	-	8

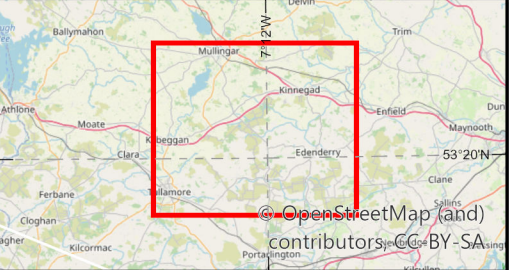
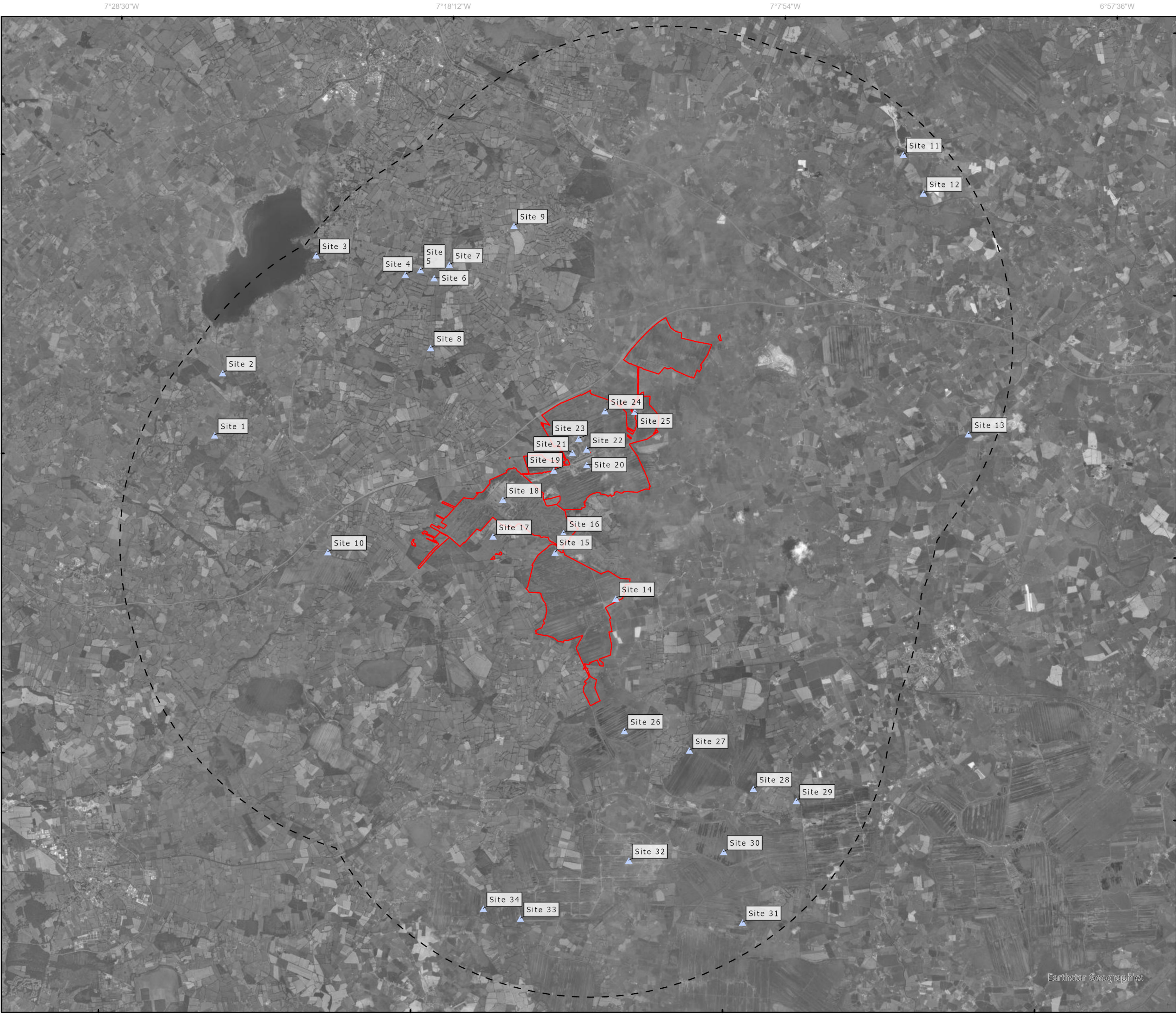
Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Common Moorhen	Green	-	-	-	-	-	2	-	2
Tufted Duck	Amber	-	-	-	-	-	2	-	2
Great Cormorant	Amber	-	-	-	1	-	1	-	2
Great Crested Grebe	Amber	-	-	1	-	-	-	-	1
Site 25									
Mute Swan	Amber	-	-	-	4	-	-	1	5
Mallard	Amber	-	-	-	-	-	-	3	3
Little Grebe	Amber	-	-	-	2	-	1	-	3
Eurasian Coot	Amber	-	-	2	-	-	-	-	2
Site 26									
Northern Lapwing	Red	-	-	-	-	8	55	7	70
Mallard	Amber	-	3	25	7	3	16	12	66
Whooper Swan	Amber	Annex I	-	2	15	26	19	-	62
Mute Swan	Amber	-	4	4	7	6	6	16	43
Eurasian Teal	Amber	-	-	5	8	3	12	4	32
Common Snipe	Red	-	2	12	2	3	1	-	20
Grey Heron	Green	-	2	2	-	3	1	1	9
Little Egret	Green	Annex I	1	-	1		1	3	6
Common Buzzard	Green	-	1	-	-	-	-	4	5
Great Egret	Green	Annex I	-	1	1	1	1	1	5
Common Redshank	Red	-	-	-	-	1	1	2	4
Little Grebe	Amber	-	-	-	-	-	-	3	3
Great Cormorant	Amber	-	-	-	1	-	1	1	3
Common Kestrel	Red	-	1	-		-	1	-	2
Water Rail	Green	-	1	-	1	-	-	-	2

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Common Moorhen	Green	-	-	-	-	-	-	2	2
Hen Harrier	Amber	Annex I	-	-	-	1	-	-	1
Black-headed Gull	Amber	-	-	-	1	-	-	-	1
Eurasian Sparrowhawk	Green	-	1	-	-	-	-	-	1
Common Greenshank	Green	-	-	-	-	1	-	-	1
Common Kingfisher	Amber	Annex I	1	-	-	-	-	-	1
Merlin	Amber	Annex I	-	1	-	-	-	-	1
Site 27									
Northern Lapwing	Red	-	-	-	-	-	35	-	35
European Golden Plover	Red	Annex I	10	-	-	-	-	-	10
Mallard	Amber	-	-	6	1	-	-	-	7
Common Ringed Plover	Amber	-	-	-	-	-	6	1	7
Whooper Swan	Amber	Annex I	-	-	6	-	-	-	6
Little Egret	Amber	-	-	3	-	-	-	-	3
Common Snipe	Red	-	-	-	-	2	-	-	2
Grey Heron	Green	-	1	-	1	-	-	-	2
Site 28									
Mallard	Amber	-	3	6	5	5	-	-	19
Common Snipe	Red	-		2	4	2	2	2	12
Mute Swan	Amber	-	2	2		2	2	2	10
Common Moorhen	Green	-	-	-	-	-	1	-	1
Common Buzzard	Green	-	-	-	1	-	-	-	1
Grey Heron	Green	-	3	6	5	-	-	1	1

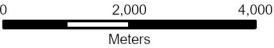
Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Site 29									
European Golden Plover	Red	Annex I	-	-	50	60	-	-	110
Mute Swan	Amber	-	4	2	2	2	2	2	14
Mallard	Amber	-	-	4	-	-	6	-	10
Common Snipe	Red	-	2	-	1	2	1	-	6
Great Cormorant	Amber	-	1	-	-	-	1	1	3
Grey Heron	Green	-	-	1	-	1	-	-	2
Common Moorhen	Green	-	-	-	-	-	-	1	1
Site 30									
European Golden Plover	Red	Annex I	-	-	550	-	-	-	550
Mallard	Amber	-	5	26	12	6	14	3	66
Whooper Swan	Amber	Annex I	-	-	6	22	12	-	40
Northern Lapwing	Red	-	-	-	-	8	22	-	30
Grey Heron	Green	-	2	3	2	2	2	-	11
Mute Swan	Amber	-	4	-	2	2	-	-	8
Eurasian Teal	Amber	-	-	2	-	6	-	-	8
Common Buzzard	Green	-	-	1	-	2	-	1	4
Great Cormorant	Amber	-	-	-	2	1	1	-	4
Common Snipe	Red	-	-	-	2	-	-	1	3
Great Egret	Green	Annex I	-	1	1	-	-	-	2
Common Kestrel	Red	-	1	-	-	-	-	-	1
Common Moorhen	Green	-	-	-	-	-	-	1	1
Little Egret	Green	Annex I	-	1	-	-	-	-	1
Site 31									
Common Snipe	Red	-	3	-	3	5	-	3	14

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Mute Swan	Amber	-	2	2	2	2	2	2	12
Common Kestrel	Red	-	2	1	1	-	1	-	5
Grey Heron	Green	-	-	-	-	-	-	1	1
Site 33									
Whooper Swan	Amber	Annex I	-	-	-	-	18	-	18
Mute Swan	Amber	-	4	5	2	-	-	-	11
Mallard	Amber	-	-	-	-	-	9	-	9
Little Egret	Green	Annex I	4	-	1	-	-	-	5
Little Grebe	Amber	-	-	-	-	-	2	1	3
Common Buzzard	Green	-	-	-	1	1	-	-	2
Northern Lapwing	Red	-	-	-	-	-	-	2	2
Common Snipe	Red	-	-	-	-	-	-	1	1
Common Kestrel	Red	-	1	-	-	-	-	-	1
Eurasian Sparrowhawk	Green	-	-	-	1	-	-	-	1
Grey Heron	Green	-	1	-	-	-	-	-	1
Common Moorhen	Green	-	-	-	-	-	-	1	1
Common Ringed Plover	Amber	-	-	-	-	-	-	1	1
Eurasian Teal	Amber	-	-	-	-	-	-	1	1
Great Egret	Green	Annex I	-	-	1	-	-	-	1
Site 34									
European Golden Plover	Red	Annex I	12	12	12	6	6	-	48
Common Snipe	Red	-	-	3	4	6	4	2	19
Northern Lapwing	Red	-	-	-	-	-	14	4	18
Mallard	Amber	-	-	-	6	-	-	-	6
Mute Swan	Amber	-	-	-	2	2	-	-	4

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Common Ringed Plover	Amber	-	-	-	-	-	-	2	2
Eurasian Sparrowhawk	Green	-	-	1	-	-	1		2
Common Buzzard	Green	-	1	-	-	1	-	-	2
Little Egret	Green	Annex I	-	-	1	-	-	-	1
Grey Heron	Green	-	1	-	-	-	-	-	1



- Legend**
- Derrygreenagh Wind and Solar Proposed Developments
 - Proposed Wind Farm 10Km Buffer
 - Water Bird Site Locations



NOTES

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING/
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE/
3. ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES/
4. ALL LEVELS RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

A	20/06/2025	First issue	K.K	J.M
Rev	Date	Description	By	Chkd.

Client:

Bord na Móna

Project:

Bord na Mona -
Derrygreenagh Wind and Solar

Title:

Figure 2-4: I-WeBS/Waterbird
Survey Locations

Scale @ A3: 1:120,000

Prepared by: K.Kale

Checked by: J.Martins

Date: June 2025

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11458-037-WT.S-BUFF10-TOB-A

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2.3 HEN HARRIER ROOST SURVEYS

Hen Harrier roost watches were undertaken within the proposed development site, following methodologies outlined within Hardey *et al.* (2013), as recommended by SNH (2017). Roost surveys were conducted at a vantage point an hour before the sunset and until last visible light. Information recorded at vantage points included a number of Hen Harrier entering a roost, time, age and sex, where it was possible to discern. The aim of this survey was to establish the distribution and abundance of Hen Harrier (*Circus cyaneus*) and other wintering raptors within the study area.

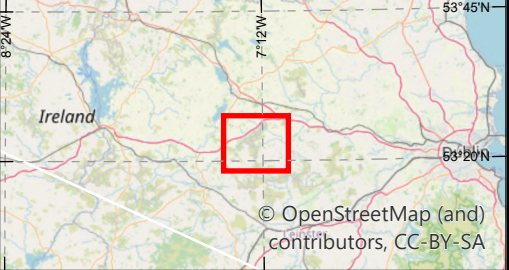
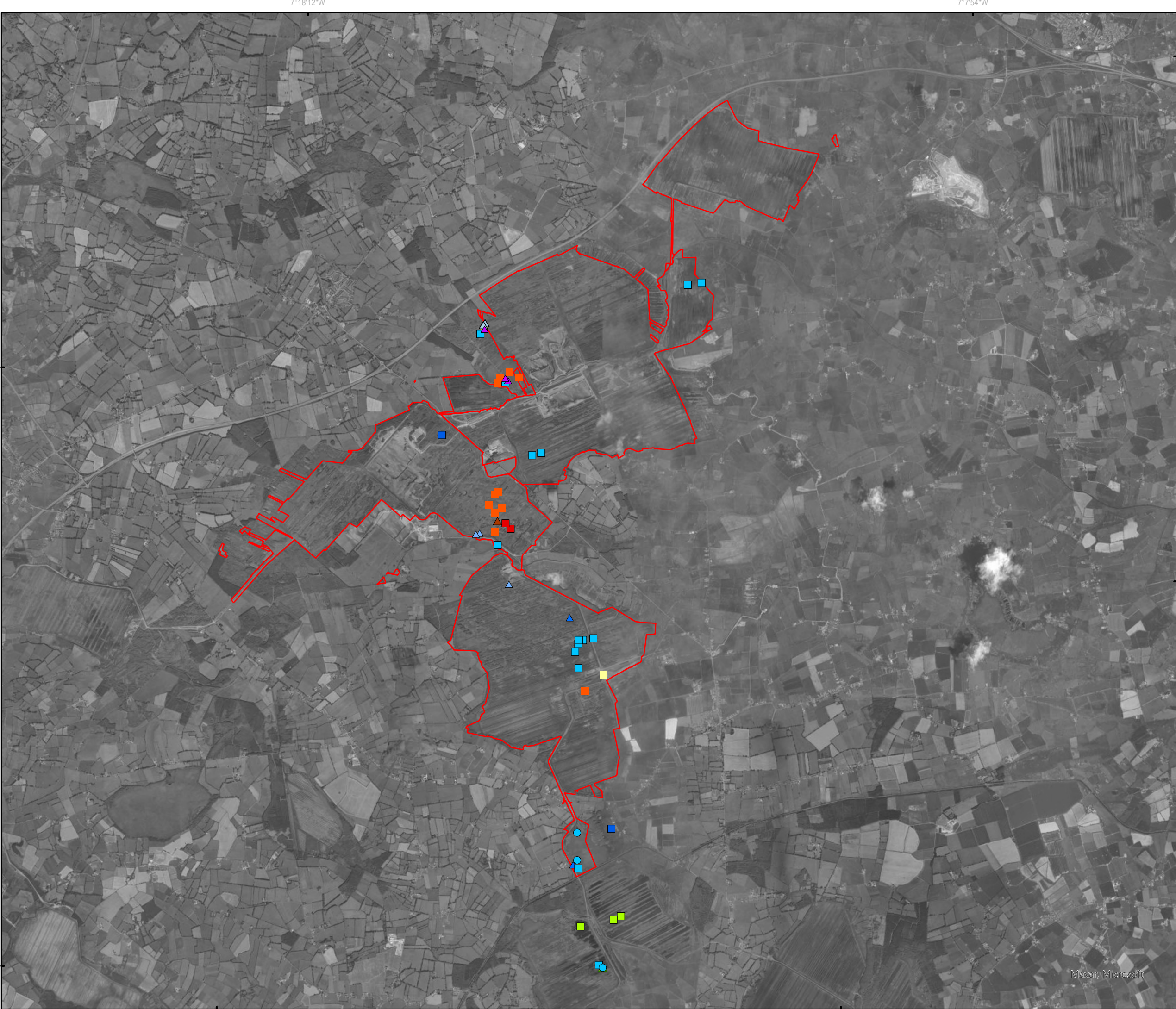
Hen Harrier was recorded throughout the survey period (13 sightings), with two potential roosting areas identified. The first was located in the north-west of Drumman Bog, west of the quarry ponds and near the track. The second potential roosting area was identified in the south-eastern part of Derryarkin Bog.

Other species recorded during the winter as part of the Hen Harrier Roost Surveys included 14 target species, with European Golden Plover (660 sightings) and Whooper Swan (30 sightings) being the most frequently observed (Table 2-8). Species observations can be seen in Figure 2-5.

Table 2-8: Summary of Hen Harrier Roost Surveys Between October 2024 - March 2025.

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
European Golden Plover	Red	Annex I	60	-	-	600	-	-	660
Whooper Swan	Amber	Annex I	4	-	-	-	26	-	30
Common Kestrel	Red	-	2	2	4	3	3	2	16
Hen Harrier	Amber	Annex I	2	1	4	2	2	2	13
Mallard	Amber	-	-	-	-	-	-	7	7
Great Cormorant	Amber	-	-	-	-	-	-	7	7
Mute Swan	Amber	-	2	2	2	-	-	-	6
Little Egret	Green	Annex I	2	1	-	-	-	-	3
Grey Heron	Green	-	-	-	-	1	2	-	3
Common Buzzard	Green	-	-	-	-	-	-	3	3
Eurasian Woodcock	Red	-	-	-	-	-	-	2	2
Common Snipe	Red	-	-	-	-	-	1	-	1
Great Egret	Green	Annex I	-	-	-	-	1	-	1

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Eurasian Sparrowhawk	Green	-	-	-	-	1	-	-	1

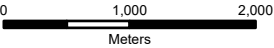


Legend

Derrygreenagh Wind and Solar -Proposed Developments

Non-Flight Observations

- ▲ Common Buzzard
- Common Kestrel
- Common Snipe
- Eurasian Sparrowhawk
- ▲ Eurasian Woodcock
- European Golden Plover
- ▲ Great Cormorant
- ▲ Great Egret
- Grey Heron
- Hen Harrier
- Little Egret
- ▲ Mallard
- Mute Swan
- ▲ Whooper Swan



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Figure 2-5: Hen Harrier Roost Survey
October 2024 – March 2025 Observations

Scale @ A3: 1:60,000

Prepared by: K.Kale

Checked by: J.Martins

Date: June 2025

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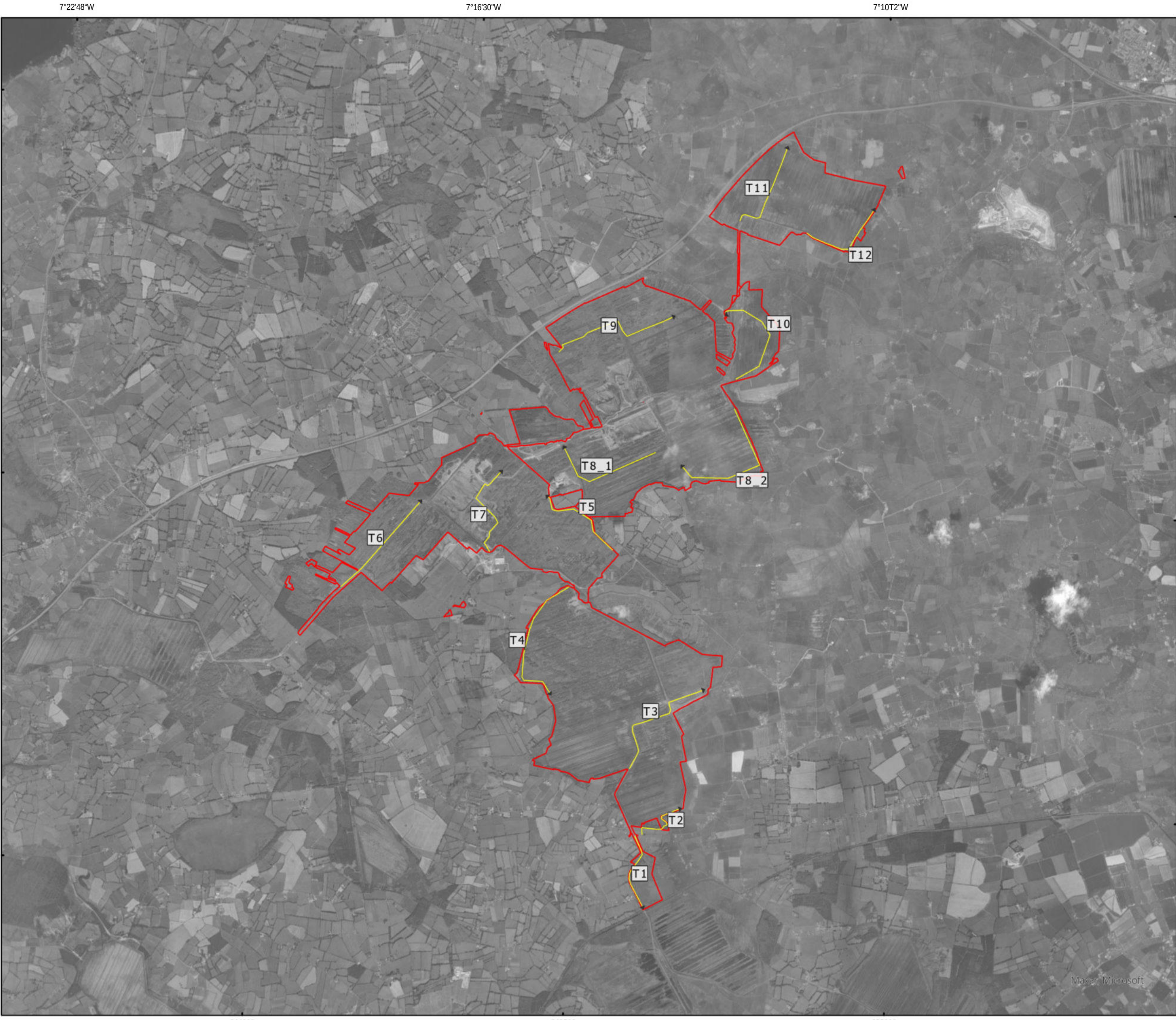
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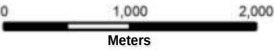
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2.4 WINTER BIRD TRANSECT SURVEY

Wintering Bird transect surveys were conducted to establish the distribution and abundance of birds within the proposed development site, and to allow the evaluation of the site's importance. The transect survey was adapted from CBS (2012), and involved 13 representative transects delineated across the Derrygreenagh Wind and Solar Farm site. Transect layout for the winter 2024/2025 can be seen in Figure 2-6.



- Legend
- Derrygreenagh Wind and Solar - Proposed development
 - Transects



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Title:

Figure 2-6: Vantage Points Survey Locations and Viewshed

Scale @ A3: 1:60,000

Prepared by: K.Kale

Checked by: J.Martins

Date: June 2025

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Map Ref: 11458-043-TR.S-VDA-TOB-A

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A total 1136 observations of 25 species were recorded over the survey period (Table 2-9). Overall, European Golden Plover, Northern Lapwing, Mute Swan and Mallard were the most abundant species recorded. Species observations can be seen in Figure 2-7 and Figure 2-8.

Table 2-9: Summary of Winter Transect Survey Bird Activity Between October 2024 and March 2025.

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
European Golden Plover	Red	Annex I	102	21	6	66	6	33	234
Northern Lapwing	Red	-	-	110	8	45	26	4	193
Mute Swan	Amber	-	10	29	17	44	18	30	148
Mallard	Amber	-	-	58	18	28	20	9	133
Common Snipe	Red	-	30	14	19	20	28	15	126
Eurasian Teal	Amber	-	6	-	7	12	9	14	48
Tufted Duck	Amber	-	1	-	5	17	14	2	39
Common Kestrel	Red	-	4	5	7	8	3	7	34
Great Cormorant	Amber	Annex I	-	-	11	5	6	9	31
Common Buzzard	Green	-	4	2	3	6	4	10	29
Black-headed Gull	Amber	-	-	-	-	-	-	19	19
Redwing	Red	-	-	-	12	6	-	-	18
Grey Heron	Green	-	-	3	5	2	5	3	18
Eurasian Sparrowhawk	Green	-	2	1	1	5	2	3	14
Whooper Swan	Amber	Annex I	5	-	7	-	-	-	12
Little Grebe	Amber	-	-	1	-	-	3	5	9
Common Ringed Plover	Amber	-	-	-	-	-	-	7	7
Great Crested Grebe	Amber	-	-	-	1	2	3	-	6
Common Pochard	Red	-	-	-	-	-	-	4	4
Peregrine Falcon	Green	Annex I	1	-	-	2	1		4

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Common Moorhen	Green	-	1	-	-		2	-	3
Hen Harrier	Amber	Annex I	-	-	1	1	-	-	2
Eurasian Wigeon	Amber	-	-	2	-	-	-	-	2
Merlin	Amber	Annex I	-	-	-	1	1	-	2
Little Egret	Green	Annex I	-	-	-	1	-	-	1

Transect 8_1 recorded the highest diversity of target bird species, with 18 species observed. This transect route passes by the Drumman quarry ponds, where swans, ducks, waders, and raptors are frequently recorded. However, the transect with the highest abundance of individual target species (327) was Transect 7, which follows a route through the Derryarkin quarry ponds, where flying flocks of Northern Lapwing and European Golden Plover were observed (Table 2-10).

Table 2-10: Distribution of Winter Transect Survey Bird Activity Between October 2024 to March 2025.

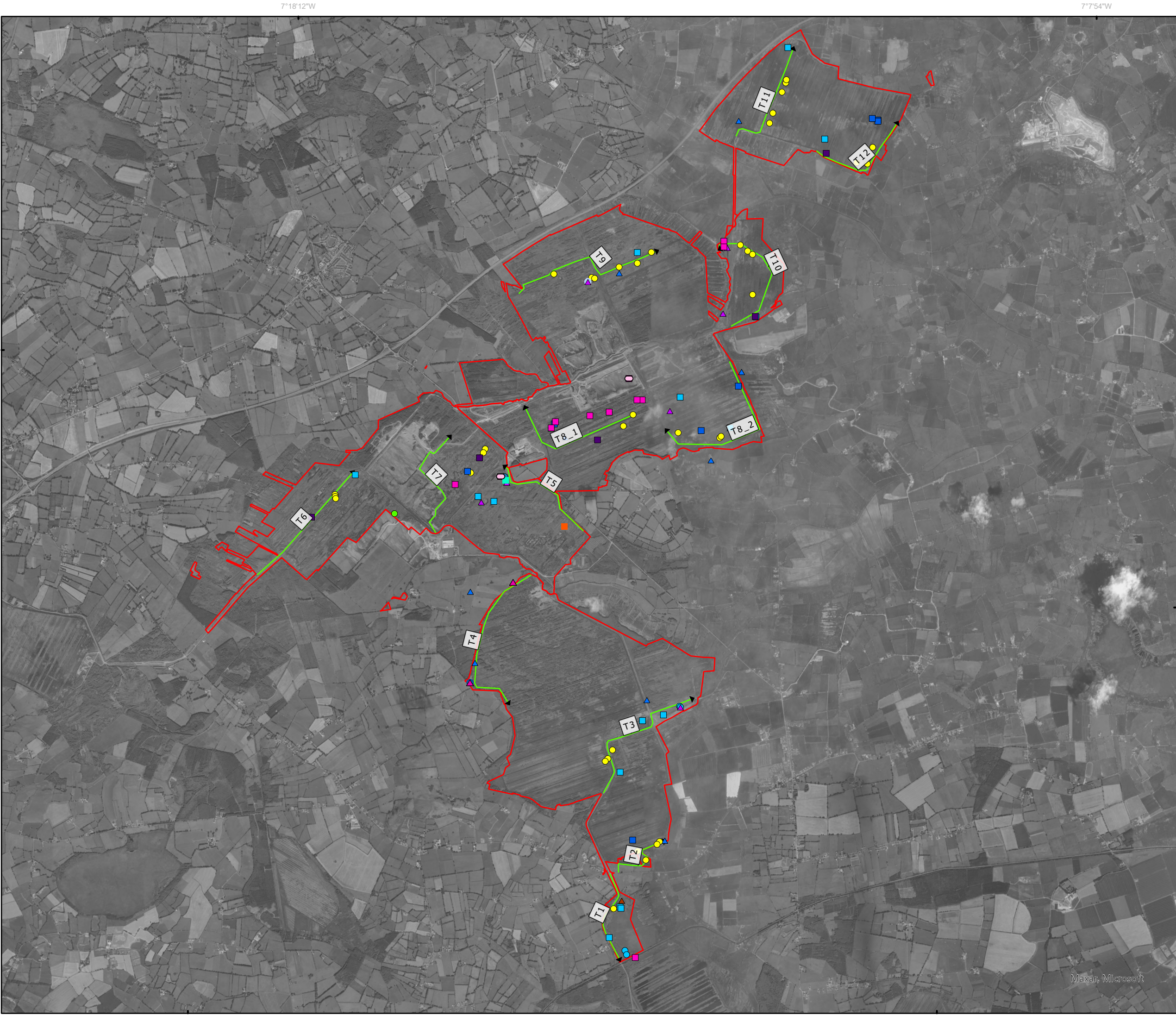
Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
T1									
Mute Swan	Amber	-	2	-	-	2	2	2	8
Common Kestrel	Red	-	1	1	1	-	-	1	4
Common Buzzard	Green	-	-	-	-	1	-	2	3
Grey Heron	Green	-	-	1	1	-	1	-	3
Common Snipe	Red	-	-	1	-	-	2	-	3
Eurasian Sparrowhawk	Green	-	-	-	-	1	1	1	3
Great Cormorant	Amber	-	-	-	1	-	-	-	1
T2									
Common Snipe	Red	-	3	1	2	2	4	3	15
European Golden Plover	Red	Annex I	-	14	-	-	-	-	14
Common Buzzard	Green	-	-	-	1	1	-	1	3
Common Kestrel	Red	-	-	-	-	1	1	-	2

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
T3									
Common Snipe	Red	-	3	2	2	3	3	-	13
Mallard	Amber	-	-	-	5	-	-	3	8
Common Kestrel	Red	-	1	1	1	1	1	1	6
Grey Heron	Green	-	-	1	1	1	1	1	5
Common Buzzard	Green	-	-	1	-	-	-	1	2
T4									
Redwing	Red	-	-	-	12	6	-	-	18
Whooper Swan	Amber	Annex I	5	-	7	-	-	-	12
Northern Lapwing	Red	-	-	-	8	-	-	-	8
Common Buzzard	Green	-	2	-	-	1	-	1	4
Eurasian Sparrowhawk	Green	-	-	-	-	-	-	1	1
T5									
Eurasian Teal	Amber	-	6	-	4	4	5	2	21
Mallard	Amber	-	-	-	6	12	-	1	19
Tufted Duck	Amber	-	1	-	-	2	6	2	11
Little Grebe	Amber	-	-	1	-	-	3	4	8
Common Pochard	Red	-	-	-	-	-	-	4	4
Common Moorhen	Green	-	1	-	-	-	1	-	2
Mute Swan	Amber	-	-	-	-	-	2	-	2
Hen Harrier	Amber	Annex I	-	-	1	-	-	-	1
Peregrine Falcon	Green	Annex I	1	-	-	-	-	-	1
T6									
Common Snipe	Red	-	1	1	-	4	-	-	6
Mallard	Amber	-	-	-	-	5	-	-	5
Common Kestrel	Red	-	-	1	-	1	1	2	5

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Common Buzzard	Green	-	-	-	-	-	2	-	2
Grey Heron	Green	-	-	-	-	-	1	-	1
Eurasian Sparrowhawk	Green	-	-	-	-	1	-	-	1
T7									
Northern Lapwing	Red	-	-	110	-	45	25	1	181
European Golden Plover	Red	Annex I	30	-	-	60	-	-	90
Mallard	Amber	-	-	6	-	8	-	-	14
Black-headed Gull	Amber	-	-	-	-	-	-	14	14
Common Snipe	Red	-	7	-	2	-	1	-	10
Mute Swan	Amber	-	-	2	-	-	-	4	6
Great Cormorant	Amber	-	-	-	-	-	4	1	5
Eurasian Sparrowhawk	Green	-	1	-	-	1	-	-	2
Grey Heron	Green	-	-	-	-	-	1	1	2
Common Kestrel	Red	-	1	-	1	-	-	-	2
Little Grebe	Amber	-	-	-	-	-	-	1	1
T8_1									
Mute Swan	Amber	-	5	25	17	40	14	24	125
Tufted Duck	Amber	-	-	-	5	15	8	-	28
Mallard	Amber	-	-	1	4	3	14	5	27
Great Cormorant	Amber	-	-	-	10	5	2	8	25
Eurasian Teal	Amber	-	-	-	3	8	-	12	23
European Golden Plover	Red	Annex I	3	-	-	-	-	18	21
Common Ringed Plover	Amber	-	-	-	-	-	-	7	7
Common Snipe	Red	-	2	-	2	2	-	-	6

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Great Crested Grebe	Amber	-	-	-	1	2	3	-	6
Grey Heron	Green	-	-	1	3	1	1	-	6
Black-headed Gull	Amber	-	-	-	-	-	-	5	5
Common Kestrel	Red	-	-	-	-	2	-	-	2
Common Buzzard	Green	-	-	1	-	1	-	-	2
Peregrine Falcon	Green	Annex I	-	-	-	1	-	-	1
Hen Harrier	Amber	Annex I	-	-	-	1	-	-	1
Eurasian Sparrowhawk	Green	-	1	-	-	-	-	-	1
Little Egret	Green	Annex I	-	-	-	1	-	-	1
Northern Lapwing	Red	-	-	-	-	-	-	1	1
T8_2									
European Golden Plover	Red	Annex I	63	-	-	-	-	-	63
Mallard	Amber	-	-	42	-	-	-	-	42
Common Snipe	Red	-	1	1	2	1	1	2	8
Common Buzzard	Green	-	1	-	1	1	2	1	6
Common Kestrel	Red	-	-	1	1	1	-	-	3
Northern Lapwing	Red	-	-	-	-	-	1	1	2
Peregrine Falcon	Green	Annex I	-	-	-	1	1		2
Eurasian Sparrowhawk	Green	-	-	-	-	2	-	-	2
T9									
Common Snipe	Red	-	7	3	1	1	5	4	21
Mallard	Amber	-	-	6	-	-	4	-	10
Common Buzzard	Green	-	-	-	1	-	-	2	3
Common Kestrel	Red	-	-	-	1	-	-	1	2

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Oct	Nov	Dec	Jan	Feb	Mar	Total
Eurasian Wigeon	Amber	-	-	2	-	-	-	-	2
Northern Lapwing	Red	-	-	-	-	-	-	1	1
Merlin	Amber	Annex I	-	-	-	1	-		1
T10									
Common Snipe	Red	-	2	1	4	1	8	3	19
European Golden Plover	Red	Annex I	-	-	-	-	-	15	15
Mallard	Amber	-	-	3	3	-	2	-	8
Mute Swan	Amber	-	3	2	-	2	-	-	7
Eurasian Teal	Amber	-	-	-	-	-	4	-	4
Common Kestrel	Red	-	-	-	1	1		1	3
Common Moorhen	Green	-	-	-	-	-	1	-	1
Merlin	Amber	Annex I	-	-	-	-	1	-	1
Grey Heron	Green	-	-	-	-	-	-	1	1
Eurasian Sparrowhawk	Green	-	-	1	-	-	-	-	1
T11									
Common Snipe	Red	-	1	3	3	4	3	2	16
Common Buzzard	Green	-	1	-	-	-	-	2	3
Common Kestrel	Red	-	-	-	1	1	-	1	3
T12									
European Golden Plover	Red	Annex I	6	7	6	6	6	--	31
Common Snipe	Red	-	3	1	1	2	1	1	9
Eurasian Sparrowhawk	Green	-	-	-	1	-	1	1	3
Common Kestrel	Red	-	1	1	-	-	-	-	2
Common Buzzard	Green	-	-	-	-	1	-	-	1



Legend

- Derrygreenagh Wind and Solar - Proposed Developments
- Non-Flight Observations
- Common Buzzard
- Common Kestrel
- Common Moorhen
- Common Snipe
- Eurasian Sparrowhawk
- Eurasian Teal
- Eurasian Wigeon
- European Golden Plover
- Great Cormorant
- Great Crested Grebe
- Grey Heron
- Hen Harrier
- Little Grebe
- Mallard
- Mute Swan
- Northern Lapwing
- Peregrine Falcon
- Redwing
- Tufted Duck
- Whooper Swan
- Transect Route

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Title:

Figure 2-7: Transect Survey
October-December 2024 Observations

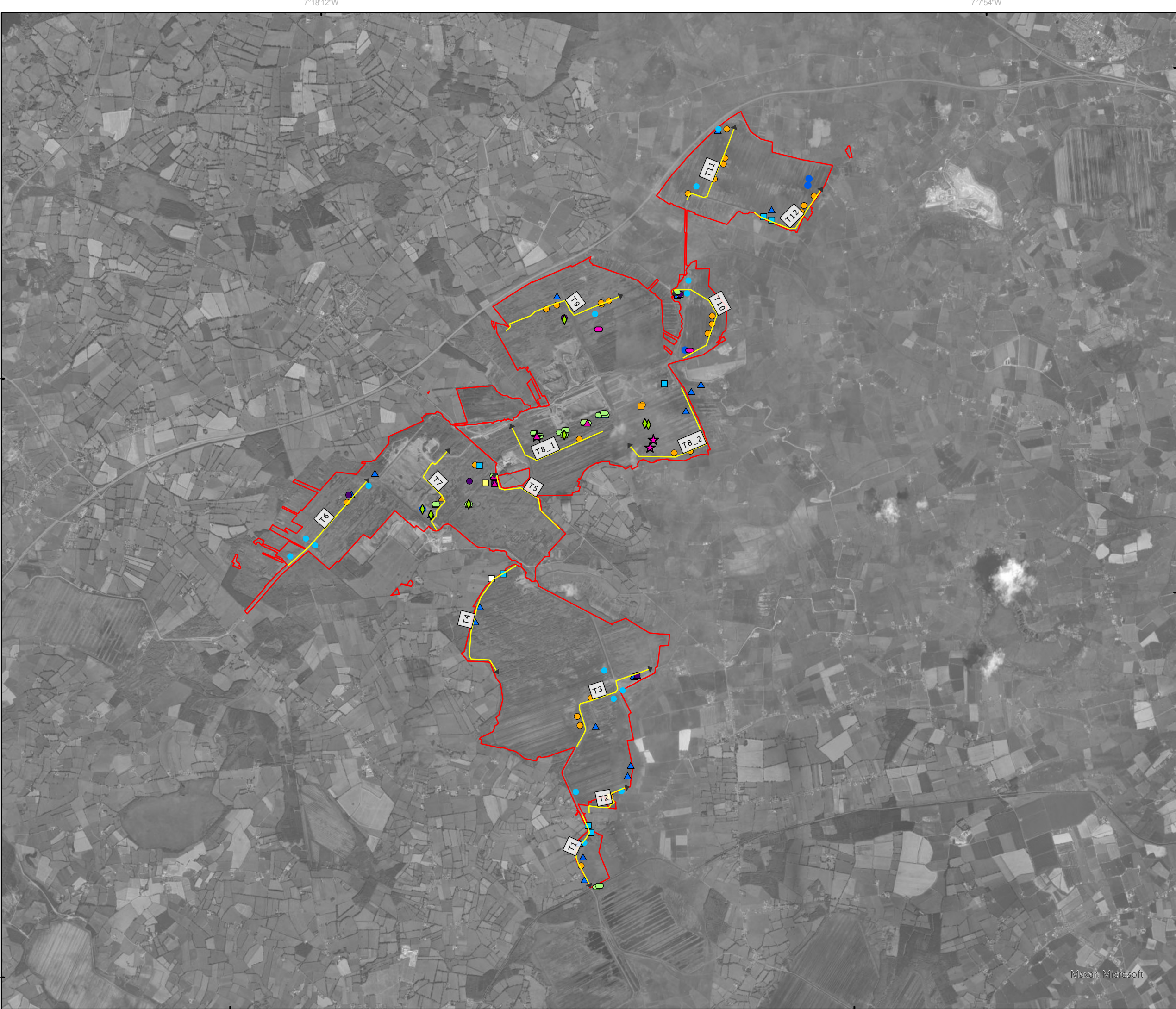
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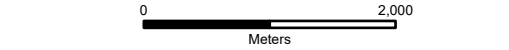


Legend

Derrygreenagh Wind and Solar - Proposed Developments

Non-Flight Observations

- Black-headed Gull
- ▲ Common Buzzard
- Common Kestrel
- Common Moorhen
- ▲ Common Pochard
- Common Snipe
- Eurasian Sparrowhawk
- Eurasian Teal
- European Golden Plover
- ▲ Great Cormorant
- Great Crested Grebe
- ▲ Grey Heron
- Hen Harrier
- Little Egret
- ▲ Little Grebe
- Mallard
- Merlin
- Mute Swan
- ◆ Northern Lapwing
- ★ Peregrine Falcon
- Redwing
- ▲ Tufted Duck
- Transect Routes



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Figure 2-8: Transect Survey
January-March 2025 Observations

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Checked by: J.Martins

Date: June 2025

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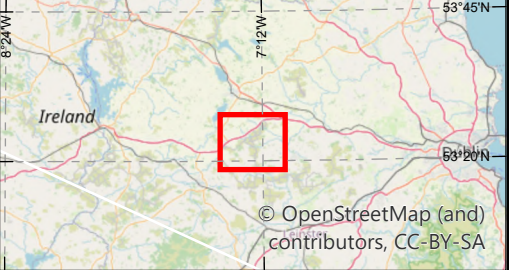
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2.5 INCIDENTAL SIGHTING

Incidental sightings were recorded at the Derrygreenagh Wind and Solar Farm site, but outside of the scheduled surveys. This could be sighting of target species observed during the walk to the VP location, during VP 30 min break, or outside of the viewshed. Incidental sightings are summarised in Table 2-11. Species observations can be seen in Figure 2-9.

Table 2-11: Summary of Incidental Sighting Surveys between October 2024 and March 2025.

Species	BoCCI (Gilbert et al., 2021)	Annex I of Birds Directive (2009/147/EC)	Number of observations over the survey period
Black-headed Gull	Amber	-	66
Whooper Swan	Amber	Annex I	19
Mallard	Amber	-	12
Little Grebe	Amber	-	1
Northern Lapwing	Red	-	1
Eurasian Woodcock	Red	-	1
Merlin	Amber	Annex I	1



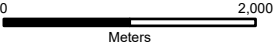
Legend

Derrygreenagh Wind and Solar -

Proposed Developments Non-Flight

Observations

- ▲ Black-headed Gull
- Eurasian Woodcock
- Little Grebe
- ▲ Mallard
- Merlin
- Northern Lapwing
- Whooper Swan



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4. ALL LEVELS RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD					
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Figure 2-9:
Incidental sightings observations

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Prepared by: K.Kale

Checked by: J.Martins

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53°24'20"N

53°18'48"N

644700

655400

3. CONCLUSION

In total, 38 target bird species were identified at the Derrygreenagh Wind and Solar Farm site and its hinterland during the winter season across all surveys. The most commonly sighted species were European Golden Plover, Northern Lapwing, Mute Swan, and Mallard. Additionally, seven raptor species were recorded at the site: Common Buzzard, Common Kestrel, Eurasian Sparrowhawk (*Accipiter nisus*), Hen Harrier, Peregrine Falcon (*Falco peregrinus*), Merlin (*Falco columbarius*), and Western Marsh Harrier (*Circus aeruginosus*).

Target species recorded at the Derrygreenagh Wind and Solar Farm site and its hinterland during the winter season 2024–2025 included eight species listed in Annex I of the Birds Directive [i.e. European Golden Plover, Whooper Swan, Hen Harrier, Peregrine Falcon, Merlin, Little Egret (*Egretta garzetta*), Great Egret (*Egretta garzetta*), and Western Marsh Harrier], and ten species classified as Red-listed by Gilbert et al. (2021) [i.e. Eurasian Curlew (*Numenius arquata*), European Golden Plover, Common Kestrel, Northern Lapwing, Northern Shoveler (*Anas clypeata*), Common Goldeneye (*Bucephala clangula*), Meadow Pipit (*Anthus pratensis*), Redwing (*Turdus iliacus*), Common Redshank (*Tringa totanus*), Common Snipe (*Gallinago Gallinago*), and Eurasian Woodcock (*Scolopax rusticola*)].

The winter 2024–2025 surveys at the Derrygreenagh Wind and Solar Farm site highlighted Hen Harrier activity at the site, with two potential roosts identified: one in the north-western area of Drumman Bog, and another in the south-eastern part of Derryarkin Bog. Additionally, Hen Harriers were observed in flight during the winter season in other parts of the Derrygreenagh Wind and Solar Farm, including Ballybeg Bog and the western area of Derryarkin Bog.

4. REFERENCES

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