



## **APPENDIX 7-5**

**CONFIDENTIAL SURVEY DATA**

## **Appendix 7-5 – Confidential Survey Data**

Clonberne Wind Farm





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1.

## HEN HARRIER

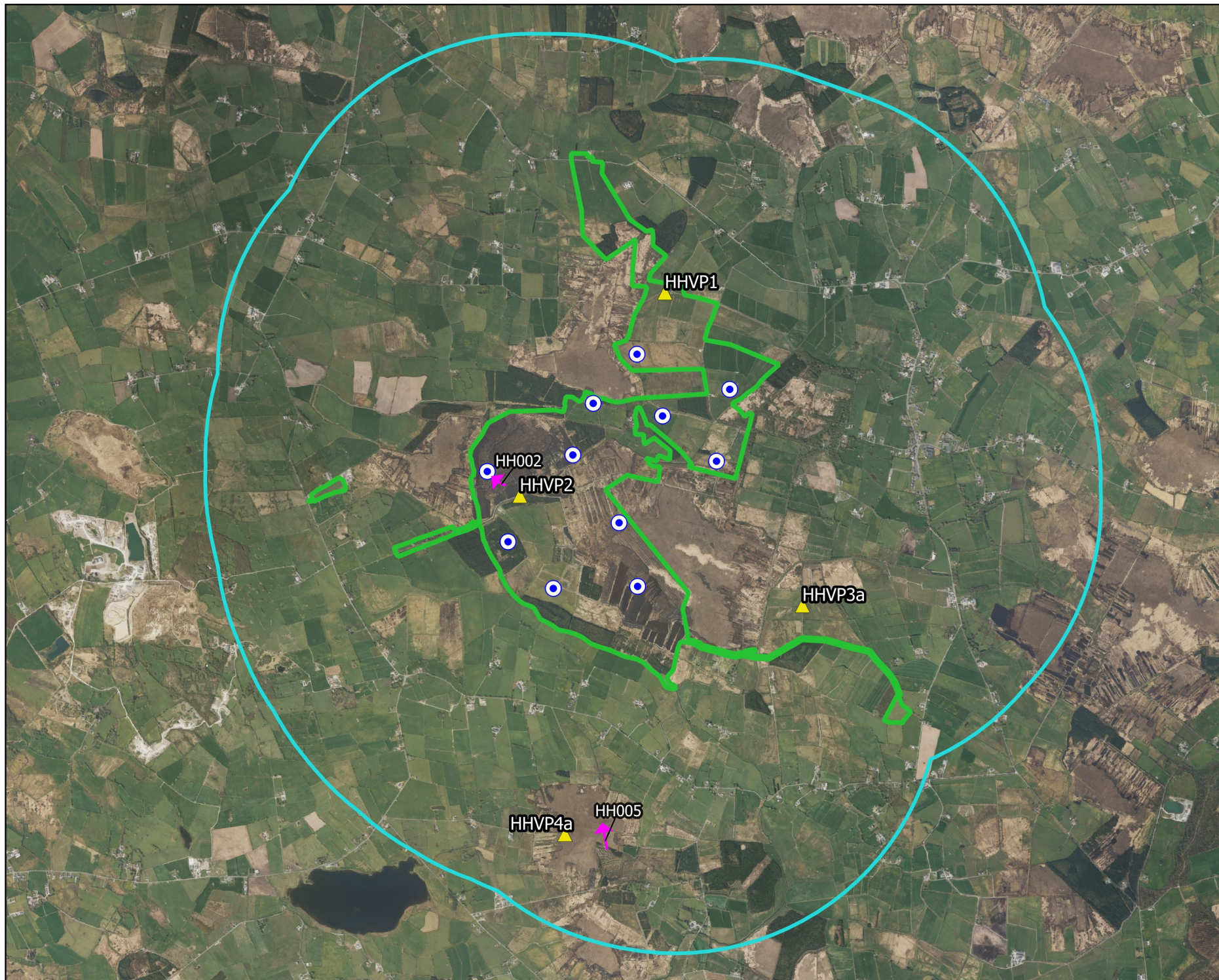
Table 1 Hen Harrier Roost Survey Data

Ref.	HHVP	Date	Time	Species	Number	Habitat and activity	Surveyor
HH002	HHVP2	06/11/2017	15:25	Hen Harrier	1	cutover bog and raised bog, in flight, female. perched on cutover bog, lifts, flying northwest, perches on heather for 10s, lifts flies northwest out of view into roost in heather.	JOS
HH005	HHVP4	15/12/2017	16:46	Hen Harrier	1	Ringtail. In flight 9s, drops down out of view to roost in bog.	JOS

Table 2 Hen Harrier Migratory Vantage Point Survey Data

Map Ref. No.	Date	VP	Species Name	No. of Birds	Time of Flight	Duration of Flight (s)	Notes on Habitat and Activity	Comments	Surveyor
HH001	20/11/2017	CMVP1	Hen Harrier	1	16:45	56	Bogs In flight; roosting	Female; hunting over bog, then circles and drops down into heather.	JOS.





### Map Legend

- EIAR Site Boundary
- 2km Survey Area
- Proposed Turbine Layout
- ▲ Hen Harrier Roost Vantage Point Location
- Flightline



Drawing Title

**Hen Harrier Observations  
Hen Harrier Roost Survey**

Project Title

**Clonberne Wind Farm**

Drawn By

**P. Manley**

Checked By

**P. Cregg**

Project No.

**180740**

Drawing No.

**Fig. 7.5.1**

Scale

**1:37,500**

Date

**22/02/2024**



**MKO**  
Planning and  
Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VW84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie





Map Legend

- EIA Site Boundary
- Proposed Turbine Layout
- Connectivity Vantage Point Location
- Flightline



Drawing Title  
Hen Harrier Observations  
Connectivity VP Survey

Project Title  
Clonberne Wind Farm

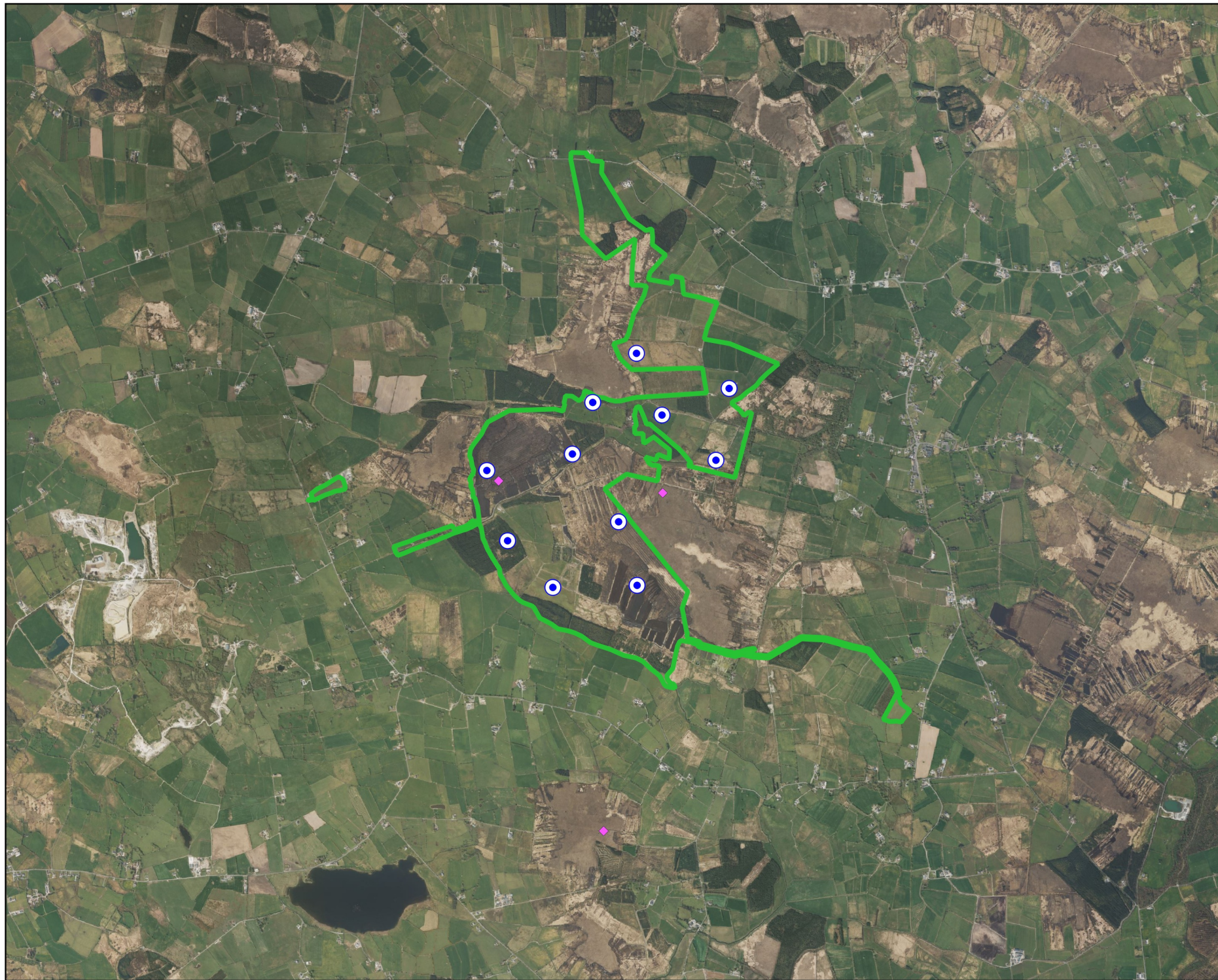
Drawn By P. Manley	Checked By P. Cregg
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Project No. 180740	Drawing No. Fig. 7.5.2
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Scale 1:23,000	Date 22/02/2024
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MKO  
Planning and  
Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VWB4  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie





Map Legend

-  EIA Site Boundary
-  Proposed Turbine Layout
-  Roost Location



Drawing Title

Hen Harrier Roost Locations

Project Title

Clonberne Wind Farm

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P. Manley

Checked By  
P. Cregg

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Fig. 7.5.3

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Planning and  
Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VW84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie



2.

## MERLIN

Table 3 Merlin Vantage Point Survey Data

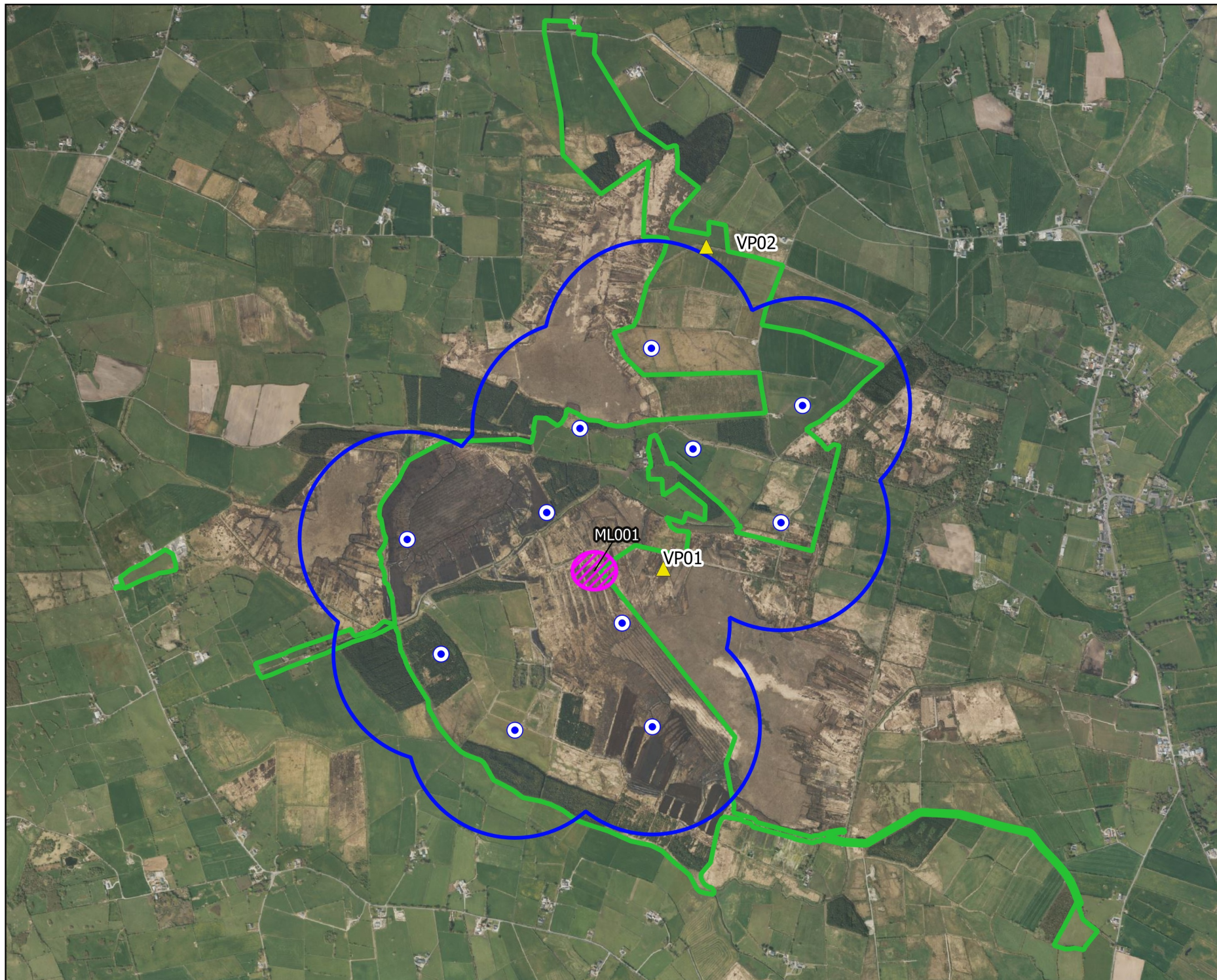
Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 (25-175m)	Band 4 (>175m)	Habitat and activity	Surveyor
ML001	VP1	20/04/2018	07:48	Merlin	1	0	0	0	0	0	cutover bog, improved agricultural grassland and raised bog; calling	SF
ML001	VP1	20/04/2018	07:55	Merlin	1	20	20	0	0	0	scrub/transitional woodland and improved agricultural grassland; female on nest in tree flies to peat hag	SF
ML001	VP1	20/04/2018	08:10	Merlin	2	20	20	0	0	0	cutover bog and improved agricultural grassland; male mates with female. male flies off	SF
ML001	VP1	20/04/2018	08:20	Merlin	1	15	15	0	0	0	improved agricultural grassland; female on peat hag	SF
ML001	VP1	20/04/2018	08:32	Merlin	2	15	15	0	0	0	cutover bog; male mates with female. male flies off	SF
ML001	VP1	20/04/2018	09:00	Merlin	2	10	10	0	0	0	cutover bog; female flies to male, both fly off	SF
ML001	VP1	20/04/2018	09:12	Merlin	1	10	10	0	0	0	cutover bog, raised bog and conifer plantation; female perches 200m from nest tree	SF
ML001	VP1	20/04/2018	09:40	Merlin	1	10	10	0	0	0	improved agricultural grassland and conifer plantation; males perches on gorse bush	SF
ML001	VP1	20/04/2018	09:49	Merlin	1	10	0	0	0	0	raised bog and cutover bog; female flies from nest. move VP further away on north side	SF
ML001	VP1	20/04/2018	10:35	Merlin	1	5	5	0	0	0	raised bog and cutover bog; male perched on bog	SF
ML001	VP1	20/04/2018	10:49	Merlin	1	0	0	0	0	0	improved agricultural grassland; female on nest	SF
ML001	VP1	20/04/2018	11:06	Merlin	1	0	0	0	0	0	improved agricultural grassland and conifer plantation; female on nest	SF
ML001	VP1	20/04/2018	11:20	Merlin	2	0	0	0	0	0	improved agricultural grassland; hear call and female then leaves nest	SF
ML001	VP1	20/04/2018	11:52	Merlin	1	10	10	0	0	0	cutover bog; female returns to nest	SF

Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 (25-175m)	Band 4 (>175m)	Habitat and activity	Surveyor
ML001	VP1	20/04/2018	13:47	Merlin	1	0	0	0	0	0	improved agricultural grassland; female leaves nest	SF
ML001	VP1	20/04/2018		Merlin	1	0	0	0	0	0	raised bog, cutover bog, and conifer plantation	SF
ML001	VP1	20/04/2018		Merlin	1	0	0	0	0	0	cutover bog and raised bog	SF
ML001	VP1	20/04/2018		Merlin	1	0	0	0	0	0	cutover bog, conifer plantation and improved agricultural grassland	SF






Table 4 Merlin Incidental Observation Data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
ML002	Ballyedmond	01/04/2018		Merlin	1	Male. Carrying prey, seen while driving. Outside of site.	CP
ML004	Near to VP1	22/04/2018		Merlin	1	At least one bird heard alarming close to the old crow's nest in the birch where a pair were seen prospecting on 20/04/2018 by SF. Two local landowners were standing within a few metres of the tree discussing which pieces of bog they were going to cut in 2018. Not seen	CP





# Map Legend

-  EIA Site Boundary
-  500m Buffer of the Proposed Turbine Layout
-  Proposed Turbine Layout
-  Vantage Point Location
-  Observation



Drawing Title

Merlin  
Vantage Point Flights

Project Title

Clonberne Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

180740

Drawing No.

Fig. 7.5.4

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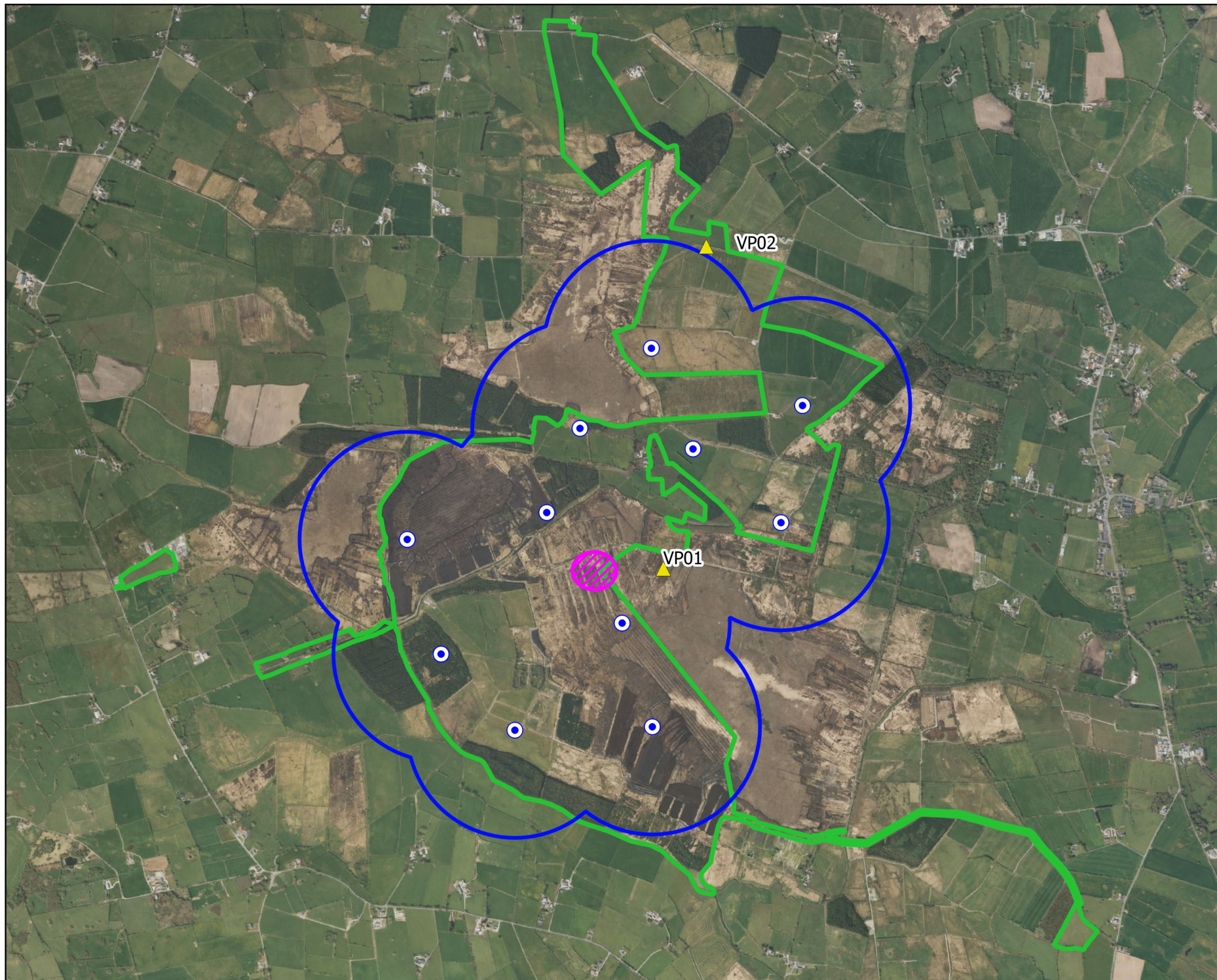
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MKO  
Planning and  
Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VV84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie





# Map Legend

- EIA Site Boundary
- 500m Buffer of the Proposed Turbine Layout
- Proposed Turbine Layout
- Vantage Point Location
- Nest Location



Drawing Title

Merlin Nest Location

Project Title

Clonberne Wind Farm

Drawn By  
P. Manley

Checked By  
P. Cregg

Project No.  
180740

Drawing No.  
Fig. 7.5.5

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22/02/2024



MKO  
Planning and  
Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VV84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie



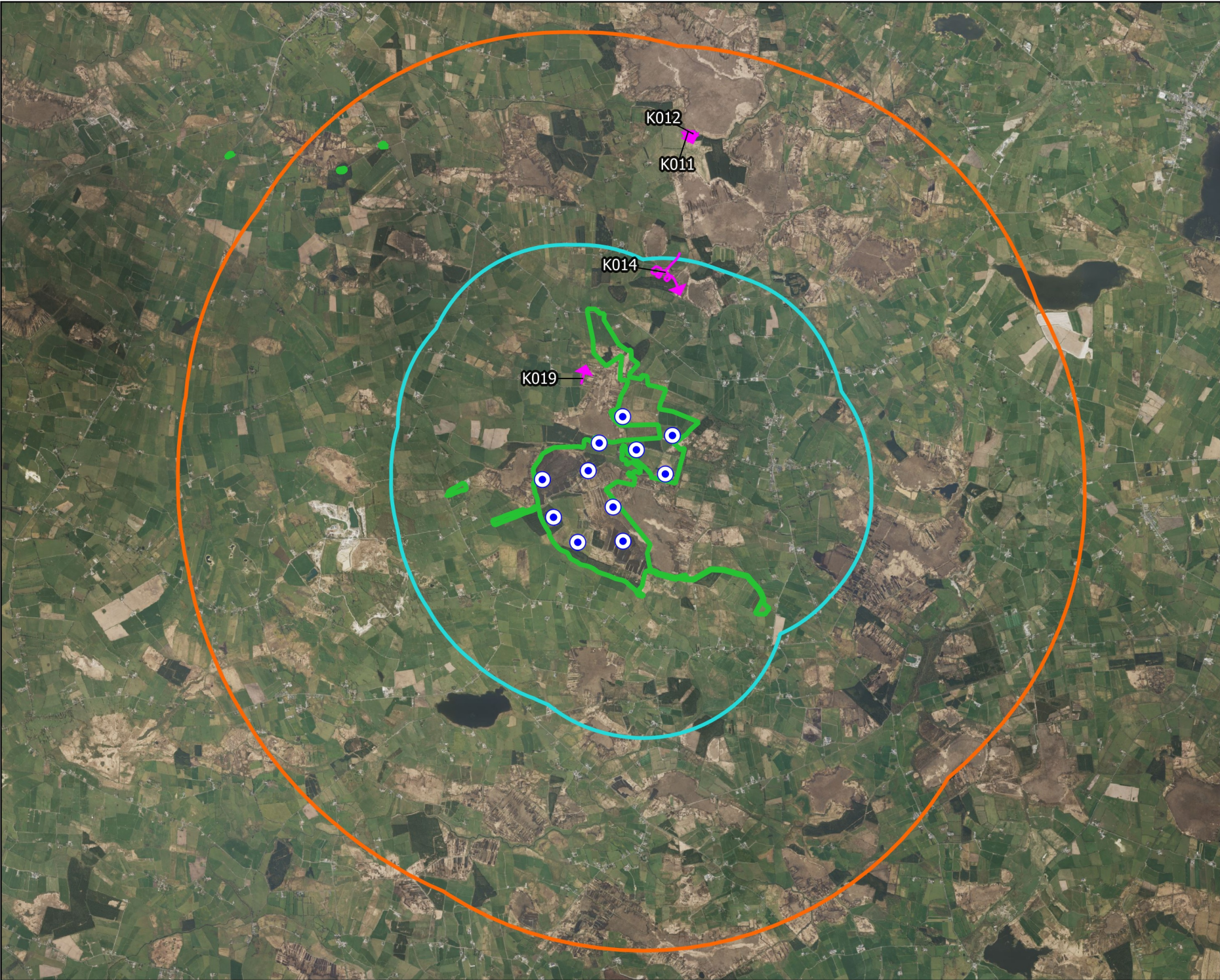
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## KESTREL

Table 5 Kestrel Breeding Raptor Survey Data

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
K011	D	26/07/2019	10:13	Kestrel	1	conifer plantation, landed in conifer plantation		CP
K012	D	26/07/2019	11:23	Kestrel	2	conifer plantation, two recently fledged birds in forestry. breeding confirmed here		CP
K014	BR1	01/06/2023	11:12	Kestrel	1	improved agricultural grassland, conifer plantation and bogs, travelling, male, looked like it was carrying something small		PDC
K019	BR4	12/07/2023	09:20	Kestrel	1	bogs, carrying prey	adult carrying food/faecal sac; confirmed breeding	LDV





Map Legend

- EIAR Site Boundary
- 2km Survey Area
- 5km Survey Area
- Proposed Turbine Layout
- Flightline



Drawing Title

Kestrel  
Breeding Raptor Obs.

Project Title

Clonberne Wind Farm

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P. Manley

Checked By  
P. Cregg

Project No.  
180740

Drawing No.  
Fig. 7.5.6

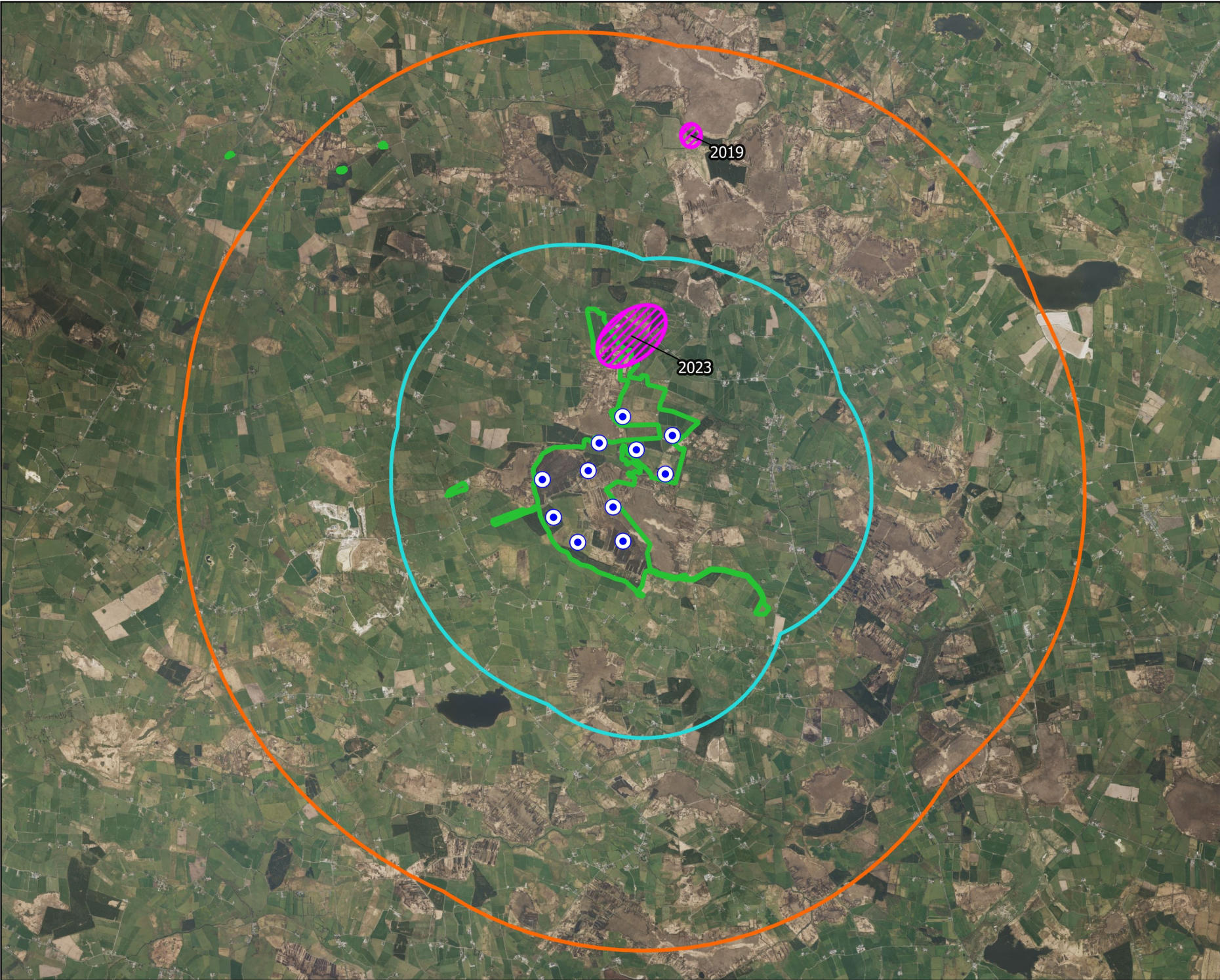
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MKO  
Planning and  
Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VV84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie





### Map Legend

- EIAR Site Boundary
- 2km Survey Area
- 5km Survey Area
- Proposed Turbine Layout
- Confirmed Territory

Drawing Title

**Kestrel Breeding Territories**

Project Title

**Clonberne Wind Farm**

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<b>P. Manley</b>	<b>P. Cregg</b>
Project No.	Drawing No.
<b>180740</b>	<b>Fig. 7.5.7</b>
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<b>1:70,000</b>	<b>22/02/2024</b>

**MKO** Planning and Environmental Consultants  
Tuam Road, Galway  
Ireland, H91 VV84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie



4.

## SNIPE

Table 6 Snipe Vantage Point Survey Data (Oct17-Mar20)

Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-10m)	Band 2 (10-25m)	Band 3 (25-175m)	Band 4 (>175m)	Habitat and activity	Surveyor
SN016	VP1	23/01/2018	17:55	Snipe	1	0	0	0	0	0	improved agricultural grassland and conifer plantation; display flight calls at dusk	PM
SN018	VP1	17/05/2018	21:30	Snipe	1	600	0	0	600	0	improved agricultural grassland, wet grassland, and conifer plantation; drumming, displaying	CP
SN019	VP2	11/06/2018	15:33	Snipe	1	130	10	20	100	0	improved agricultural grassland and scrub; display flight,	CP

Table 7 Snipe Vantage Point Survey Data (Oct22-Sep23)

Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	Band 3 (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
SN046	VP1	02/05/2023	19:56	Snipe	1	305	0	0	305	0	bogs; display, drumming, came up with previous snipe sighting	PDC
SN048	VP1	02/05/2023	20:24	Snipe	1	-	-	-	-	-	bogs; singing, heard not seen, location best estimate	PDC
SN050	VP1	13/06/2023	07:39	Snipe	1	78	0	0	78	0	bogs; drumming, seemed to drop onto bog	PDC
SN051	VP1	13/06/2023	07:41	Snipe	1	598	102	70	426	0	bogs; drumming	PDC
SN052	VP1	13/06/2023	07:42	Snipe	1	-	-	-	-	-	bogs; calling, heard calling whilst other snipe was drumming, location is best guess	PDC
SN053	VP1	13/06/2023	08:02	Snipe	1	114	0	114	0	0	bogs; drumming	PDC
SN054	VP1	13/06/2023	08:03	Snipe	1	15	0	15	0	0	bogs; travelling, flew past while other snipe was still drumming	PDC
SN055	VP1	13/06/2023	08:04	Snipe	1	10	0	0	10	0	bogs; travelling, third snipe spotted whilst first bird still drumming	PDC
SN057	VP1	13/06/2023	08:59	Snipe	1	78	0	78	0	0	bogs; drumming	PDC
SN058	VP1	13/06/2023	09:01	Snipe	1	24	0	24	0	0	bogs; drumming, briefly seen whilst watching previous snipe	PDC
SN059	VP1	13/06/2023	09:13	Snipe	1	205	0	205	0	0	bogs; drumming	PDC
SN060	VP1	13/06/2023	09:14	Snipe	1	115	0	0	115	0	bogs; drumming, in air at same time as previous snipe	PDC
SN061	VP1	13/06/2023	09:49	Snipe	1	53	0	53	0	0	bogs; drumming, dropped onto bog	PDC
SN062	VP1	13/06/2023	10:06	Snipe	2	148	15	133	0	0	bogs; drumming	PDC
SN063	VP1	13/06/2023	10:08	Snipe	1	28	0	28	0	0	bogs; drumming, came up to join previous pair in the air	PDC
SN064	VP1	13/06/2023	10:31	Snipe	1	141	0	141	0	0	bogs; drumming	PDC
SN065	VP1	13/06/2023	10:57	Snipe	1	77	0	77	0	0	bogs; drumming, dropped onto bog	PDC
SN066	VP1	13/07/2023	07:10	Snipe	1	7	2	2	3	0	bogs; drumming	LDV
SN067	VP1	13/07/2023	07:44	Snipe	2	68	0	20	48	0	bogs; flying, drumming sometimes	LDV
SN068	VP1	13/07/2023	07:46	Snipe	1	196	10	30	146	0	bogs; flying, drumming sometimes, was joint by 2 other snipe	LDV
SN069	VP1	13/07/2023	08:18	Snipe	1	59	5	54	0	0	bogs; flying, was drumming sometimes	LDV
SN070	VP1	13/07/2023	08:42	Snipe	3	167	10	10	147	0	bogs; flying, drumming and calling	LDV

Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	Band 3 (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
SN071	VP1	13/07/2023	08:43	Snipe	1	80	5	5	80	0	bogs; travelling, calling and drumming	LDV
SN072	VP1	13/07/2023	08:44	Snipe	1	43	5	5	33	0	bogs; travelling, calling and drumming	LDV
SN073	VP1	13/07/2023	10:31	Snipe	1	73	2	2	69	0	bogs; drumming	LDV
SN075	VP1	13/07/2023	10:14	Snipe	1	-	-	-	-	-	bogs; drumming, heard but not seen	LDV
SN078	VP1	13/07/2023	11:32	Snipe	1	-	-	-	-	-	bogs; drumming, heard but not seen	LDV



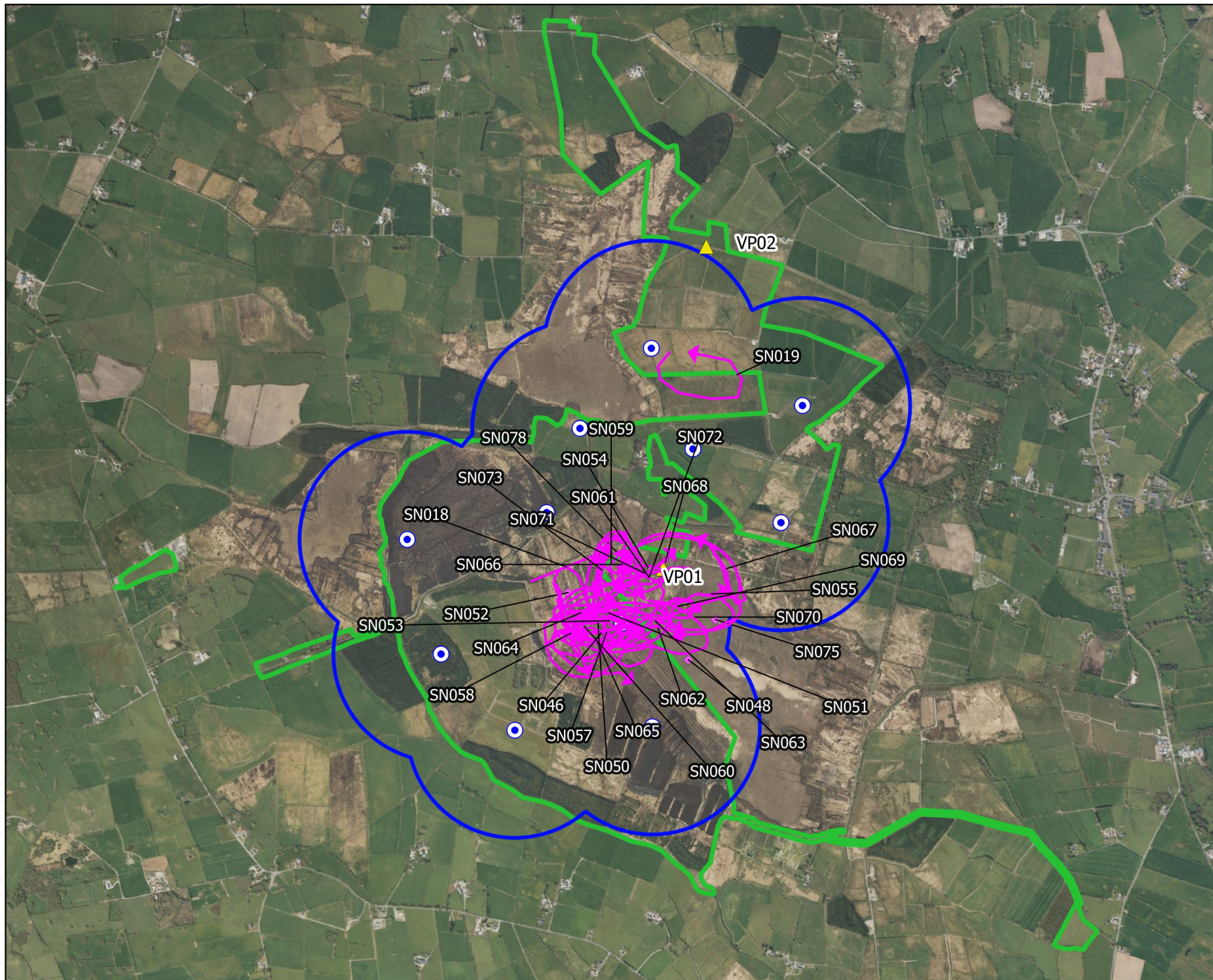
Table 8 Snipe Breeding Walkover Survey Data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SN005	23/05/2018		Snipe	1	Chipping (calling).	CP
SN006	21/06/2018		Snipe	1	Chipping/calling	CP
SN007	21/06/2018		Snipe	2	One chipping and flight; one display flight.	CP
SN008	21/06/2018		Snipe	1	Display flight and chipping.	CP
SN013	12/04/2019		Snipe	2	cutover bog; one flushed, one chipping. (singing male; possible breeder)	CP
SN015	13/05/2019		Snipe	1	raised bog; heard chipping only.	CP
SN016	14/05/2019		Snipe	1	raised bog; chipping/drumming. flightline recorded. (courtship and display; probable breeding)	CP
SN017	15/05/2019		Snipe	1	raised bog; chipping.	CP
SN018	15/05/2019		Snipe	1	cutover bog; chipping.	CP
SN019	15/05/2019		Snipe	1	cutover bog; chipping and drumming. flightline recorded. (courtship and display; probable breeding)	CP
SN020	25/06/2019		Snipe	1	raised bog; chipping. (singing male; possible breeder)	CP
SN021	26/06/2019		Snipe	1	cutover bog; chipping. (singing male; possible breeder)	CP
SN022	17/04/2023	08:26	Snipe	1	bogs; singing, heard not seen	PDC
SN023	17/04/2023	10:50	Snipe	1	bogs; singing, heard not seen	PDC
SN026	21/06/2023	07:32	Snipe	1	bogs; drumming (courtship and display; probable breeding)	PDC
SN027	21/06/2023	07:33	Snipe	1	bogs; drumming (courtship and display; probable breeding)	PDC
SN028	22/06/2023	08:53	Snipe	1	bogs and improved grassland; drumming, heard not seen	PDC
SN035	17/07/2023	07:10	Snipe	2	bogs; drumming, 2 heard, one calling, one drumming	PDC
SN036	17/07/2023	07:16	Snipe	1	bogs; drumming	PDC
SN037	17/07/2023	07:17	Snipe	1	bogs; drumming	PDC
SN038	17/07/2023	07:54	Snipe	1	bogs; drumming	PDC
SN039	17/07/2023	07:54	Snipe	2	bogs; drumming	PDC
SN041	17/07/2023	08:00	Snipe	1	bogs; drumming	PDC
SN043	17/07/2023	09:32	Snipe	1	bogs; drumming	PDC

Table 9 Snipe Connectivity Vantage Point Survey Data

Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
SN013	CMVP1	31/05/2018	21:10	Snipe	1	600	cutover bog, raised bog and conifer plantation; drumming, displaying	CP
SN020	CMVP1	22/03/2019	19:28	Snipe	1	720	improved agricultural grassland, cutover bog and raised bog; circling, drumming display flight.	CP
SN021	CMVP1	05/04/2019	20:53	Snipe	2	1380	cutover bog and raised bog; circling, drumming display flight.	CP
SN022	CMVP1	19/04/2019	21:20	Snipe	1	1200	cutover bog, raised bog and conifer plantation; circling, drumming display flight.	CP
SN023	CMVP1	19/04/2019	21:24	Snipe	1	960	cutover bog, raised bog and conifer plantation; circling, drumming display flight.	CP
SN024	CMVP1	07/05/2019	21:52	Snipe	1	480	cutover bog, raised bog and conifer plantation; circling, drumming display flight.	CP
SN025	CMVP1	20/05/2019	22:21	Snipe	1	840	cutover bog and conifer plantation; circling, drumming display flight.	CP
SN040	CMVP1	22/03/2023	08:53	Snipe	1	71	bogs; display	PDC





# Map Legend

- EIAR Site Boundary
- 500m Buffer of the Proposed Turbine Layout
- Proposed Turbine Layout
- ▲ Vantage Point Location
- Flightline
- ◆ Observation



Drawing Title

Snipe  
Vantage Point Flights

Project Title

Clonberne Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

180740

Drawing No.

Fig. 7.5.8

Scale

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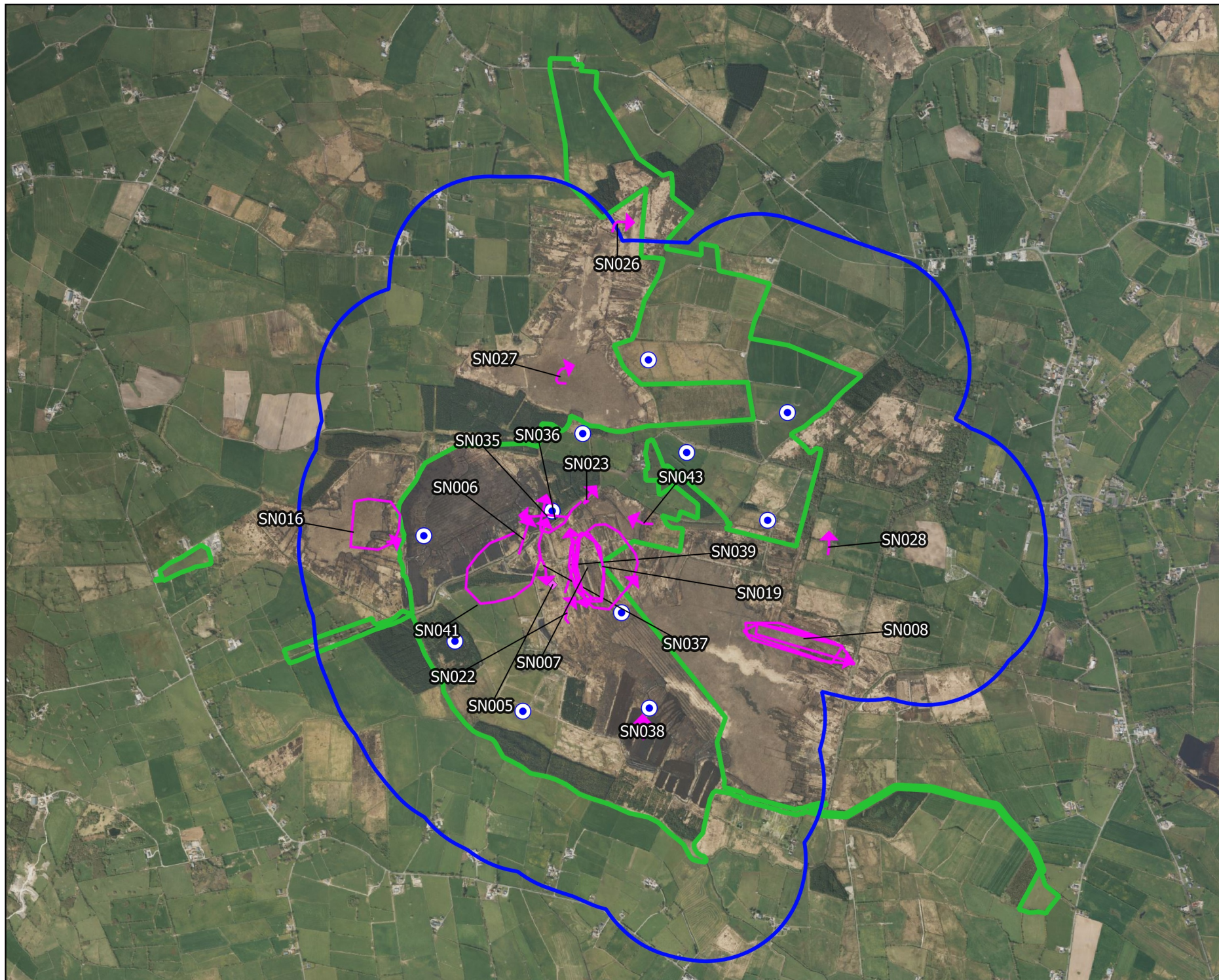
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MKO  
Planning and  
Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VV84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie





# Map Legend

- EIA Site Boundary
- Walkover Survey Area
- Proposed Turbine Layout
- Flightline
- ◆ Observation



Drawing Title

**Snipe  
Breeding Walkover Obs.**

Project Title

**Clonberne Wind Farm**

Drawn By

**P. Manley**

Checked By

**P. Cregg**

Project No.

**180740**

Drawing No.

**Fig. 7.5.9**

Scale

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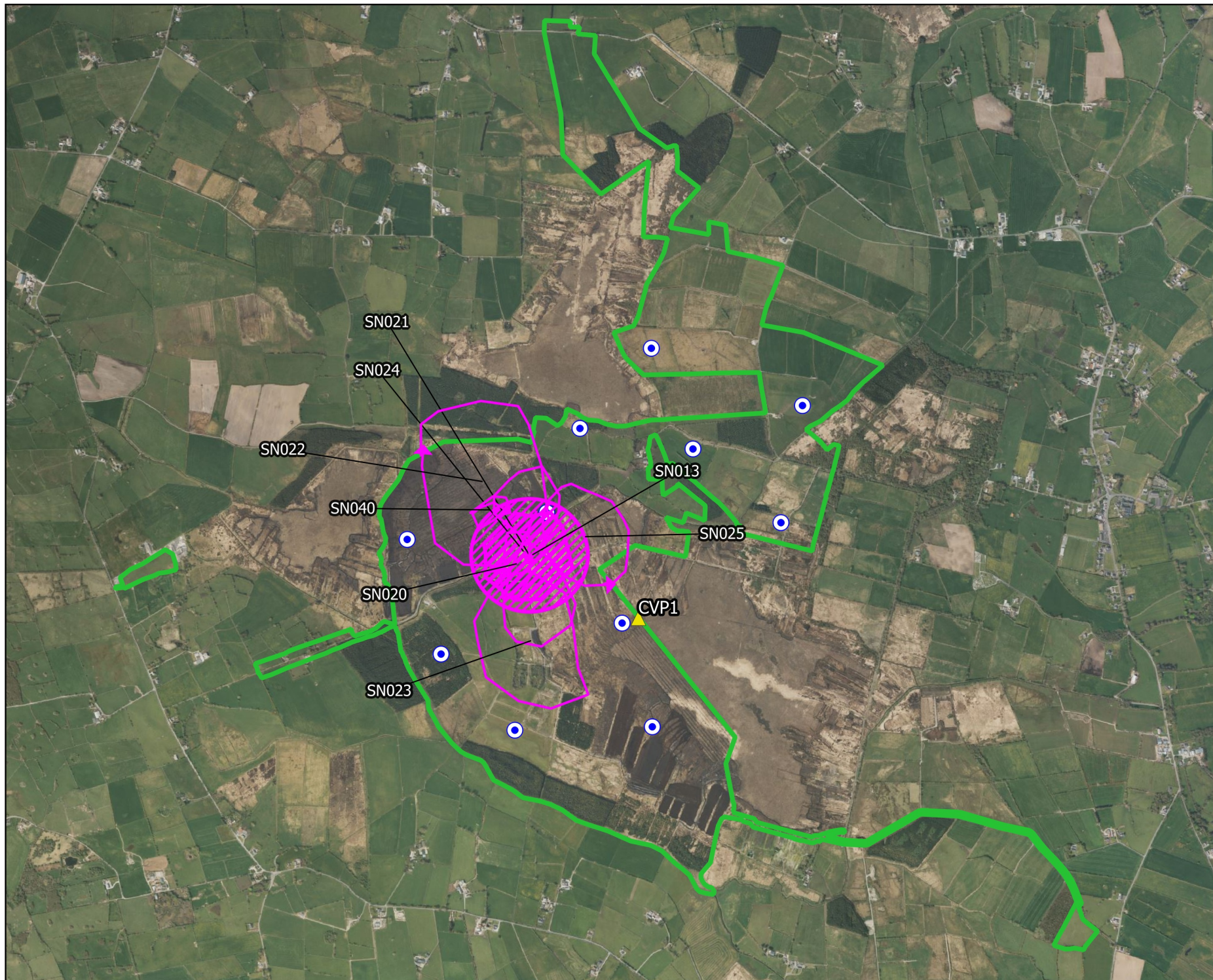
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Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VV84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: www.mkofireland.ie





# Map Legend

-  EIAR Site Boundary
-  Proposed Turbine Layout
-  Connectivity Vantage Point Location
-  Flightline
-  Observation



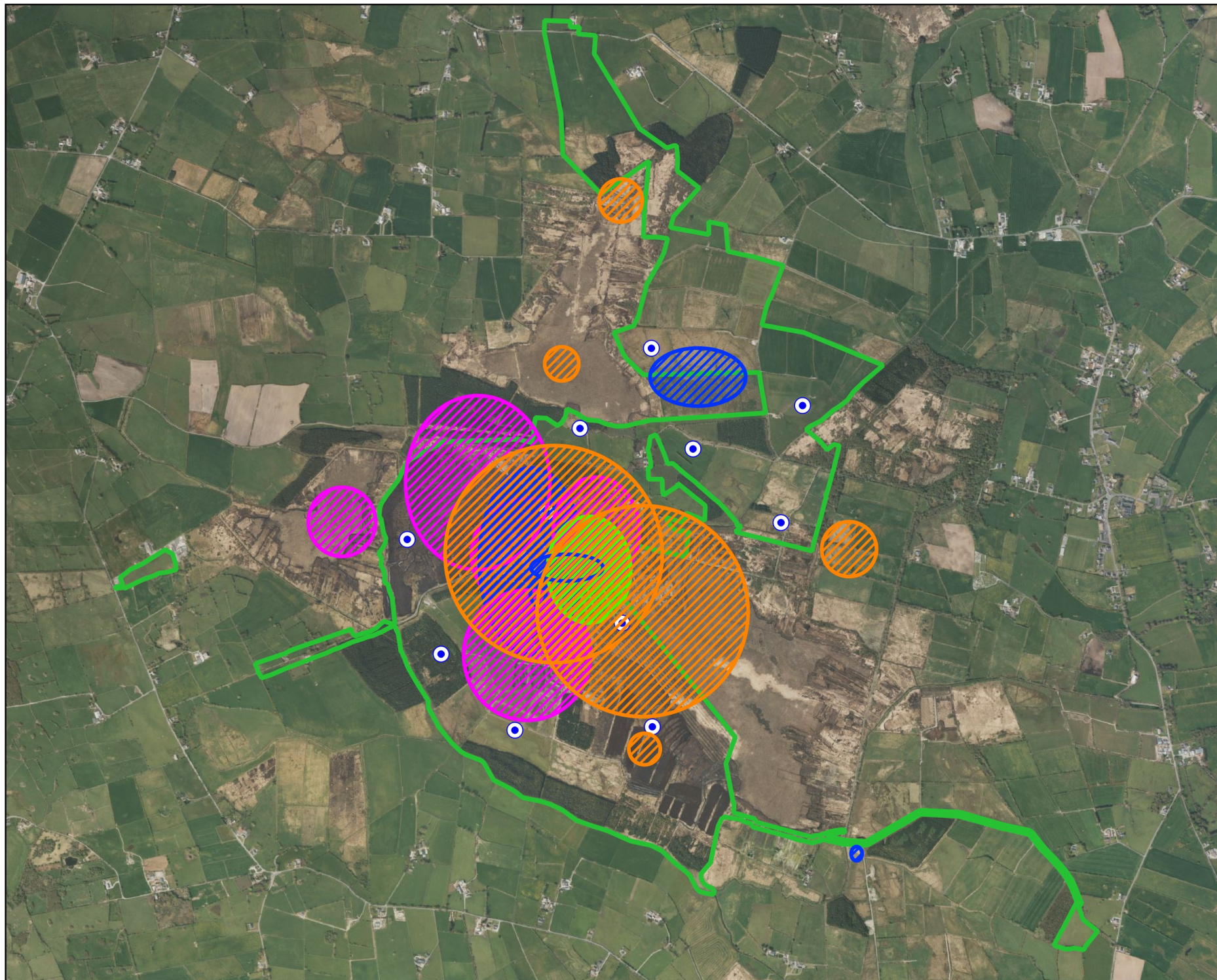
Drawing Title  
**Common Snipe Observations  
Connectivity VP Survey**

Project Title  
**Clonberne Wind Farm**







Drawn By <b>P. Manley</b>	Checked By <b>P. Cregg</b>
Project No. <b>180740</b>	Drawing No. <b>Fig. 7.5.10</b>
Scale <b>1:23,000</b>	Date <b>22/02/2024</b>

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Planning and  
Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VV84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie





# Map Legend

-  Eiar Site Boundary
-  Proposed Turbine Layout
- Snipe Territory
  -  2018
  -  2019
  -  2018/19
  -  2023



Drawing Title

Common Snipe Territories

Project Title

Clonberne Wind Farm

Drawn By  
P. Manley

Checked By  
P. Cregg

Project No.  
180740

Drawing No.  
Fig. 7.5.11

Scale  
1:23,000

Date  
22/02/2024



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Consultants  
Tuam Road, Galway  
Ireland, H91 VW84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie



5.

## SPARROWHAWK

Table 10 Sparrowhawk Breeding Walkover Survey Data

Ref.	Date	Transect No.	Time of observation	Species	No. of birds	Habitat and Activity	Comments	Surveyor
SH002	11/07/2019	2		Sparrow hawk	1	Cutover bog, Conifer plantation, Bird circling, young bird heard calling from conifers nearby. Breeding occurred here. Flightline recorded.	Recently fledged young/downy young; Confirmed breeding	CP
SH005	24/05/2023		09:24	Sparrow hawk	1	conifer plantation; chasing magpie		PDC
SH006	19/07/2023		08:00	Sparrow hawk	1	improved agricultural grassland; travelling, female carrying prey (adult carrying food/faecal sac; confirmed breeding)		PDC

Table 11 Sparrowhawk Breeding Raptor Survey Data

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
SH001	C	20/07/2018	12:20	Sparrowhawk	2	conifer plantation, primary feather found and 2+ young calling from nest		CP
SH002	O	18/04/2019	14:50	Sparrowhawk	1	conifer plantation, displaying over forestry		CP





# Map Legend

- EIA Site Boundary
- Walkover Survey Area
- Proposed Turbine Layout
- Flightline



Drawing Title

Sparrowhawk  
Breeding Walkover Obs.

Project Title

Clonberne Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

180740

Drawing No.

Fig. 7.5.12

Scale

1:25,000

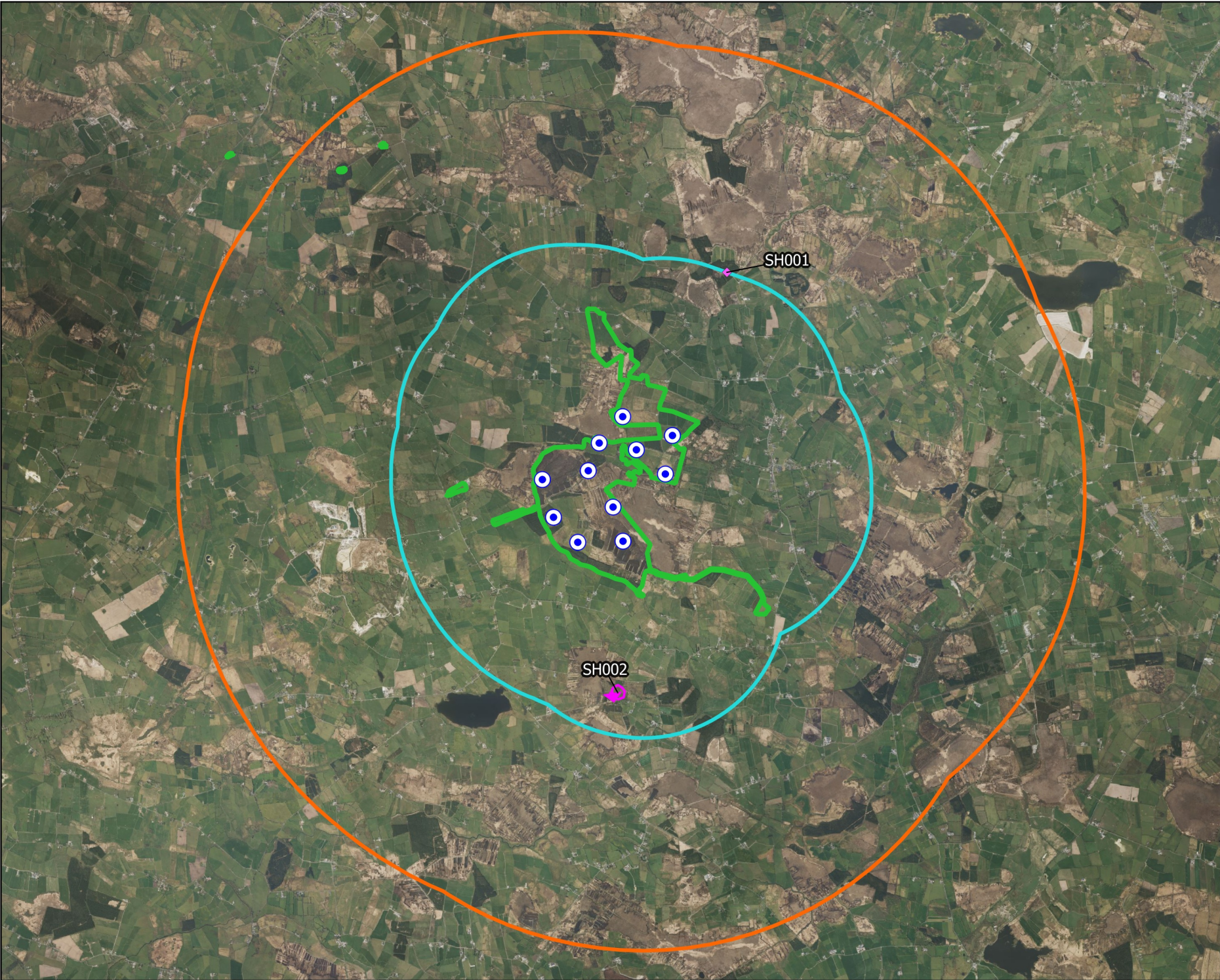
Date

22/02/2024



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Planning and  
Environmental  
Consultants  
Tuam Road, Galway  
Ireland, H91 VV84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie





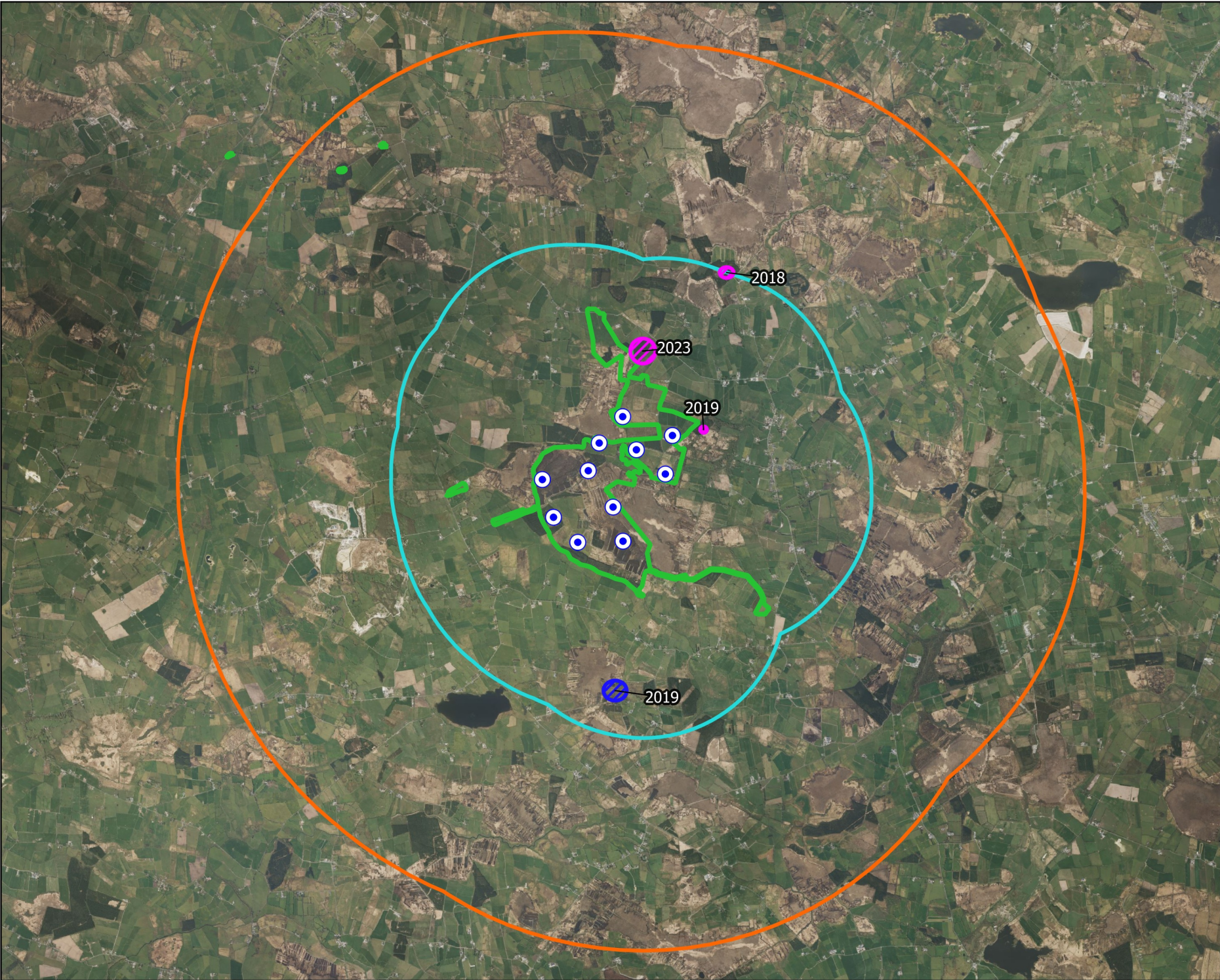
Map Legend

- EIA Site Boundary
- 2km Survey Area
- 5km Survey Area
- Proposed Turbine Layout
- Flightline
- Observation



Drawing Title	
Sparrowhawk Breeding Raptor Obs.	
Project Title	
Clonberne Wind Farm	
Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
180740	Fig. 7.5.13
Scale	Date
1:70,000	22/02/2024
MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VV84 +353 (0) 91 735611 email: info@mkofireland.ie Website: ww.mkofireland.ie	





### Map Legend

- EIAR Site Boundary
- 2km Survey Area
- 5km Survey Area
- Proposed Turbine Layout

Breeding Territory

- Confirmed
- Probable

Drawing Title

**Sparrowhawk Breeding Territories**

Project Title

**Clonberne Wind Farm**

Drawn By	Checked By
<b>P. Manley</b>	<b>P. Cregg</b>
Project No.	Drawing No.
<b>180740</b>	<b>Fig. 7.5.14</b>
Scale	Date
<b>1:70,000</b>	<b>22/02/2024</b>

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Planning and  
Environmental  
Consultants

Tuam Road, Galway  
Ireland, H91 VV84  
+353 (0) 91 735611  
email: info@mkofireland.ie  
Website: ww.mkofireland.ie