



APPENDIX 7-4

SURVEY DATA

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1. SURVEY DATA

1.1 Golden Plover

Table 7 - 4 - 1 Golden Plover vantage point survey data

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
GP001	VP2	13/04/2022	19:26	Golden Plover	36	75	0	0	75	0	improved agricultural grassland and conifer plantation; circling, at 120-160m height	MOC
GP002	VP4	30/10/2022	14:19	Golden Plover	6	26	0	0	26	0	improved agricultural grassland and conifer plantation; flying north at 120m height, flock of 6	MOC
GP003	VP4	11/03/2023	15:45	Golden Plover	14	35	0	35	0	0	improved agricultural grassland; x14 flock flying high to nw, at 120-150m height	MOC

1.2 Hen Harrier

Table 7 - 4 - 2 Hen Harrier vantage point survey data

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
HH001	VP5	04/06/2021	18:20	Hen Harrier	1	480	480	0	0	0	conifer plantation; hunting, adult male,	TR
HH003	VP4	19/08/2021	17:20	Hen Harrier	1	60	60	0	0	0	improved agricultural grassland, mixed broadleaved/conifer woodland and hedgerows; travelling flight, male, travelling southwest	JG
HH004	VP1	29/11/2021	not recorded	Hen Harrier	1	55	45	10	0	0	conifer plantation and wet grassland; hunting, male hen harrier hunting	TK
HH005	VP1	25/07/2022	18:56	Hen Harrier	1	30	20	10	0	0	wet grassland and recently-felled woodland; flying	TS
HH006	VP2	06/03/2023	16:39	Hen Harrier	1	110	55	35	20	0	conifer plantation; adult male hen harrier hunting over second rotation young forestry at 2-5m height, travelling over mature forestry at 20-30m height, adult male	MOC

Table 7 - 4 - 3 Hen Harrier breeding walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
HH001	08/06/2021	09:33	Hen Harrier	1	conifer plantation and wet grassland; hunting, adult male hunting over plantation, flew slowly south then over fields and clear fell over next 2-3 mins (suitable nesting habitat; possible breeder)	AM

Table 7 - 4 - 4 Hen Harrier hen harrier roost survey data

Ref.	HHVP	Date	Time	Species	Number	Habitat and activity	Surveyor
HH001	HHVP1	03/01/2022	15:33	Hen Harrier	1	wet grassland and conifer plantation, hunting, male hen harrier hunting, didn't go to roost in area of hhvp 1	TK
HH002	HHVP3	13/02/2023	17:00	Hen Harrier	1	wet grassland and conifer plantation, flying, circling, adult male	TS

Table 7 - 4 - 5 Hen Harrier breeding raptor survey data

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
HH001	BR4	16/06/2022	19:18	Hen Harrier	1	wet grassland, flying, adult male	suitable nesting habitat; possible breeder	TS

1.3

Little Egret

Table 7 - 4 - 6 Little Egret waterbird distribution and abundance survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
ET001	Laceys cross	05/08/2021	16:12	Little Egret	1	improved agricultural grassland; flyover	JG
ET002	Ballinahow	05/08/2021	16:22	Little Egret	1	depositing/lowland rivers; foraging, feeding just under bridge	JG
ET003	VP11	07/09/2022	15:48	Little Egret	1	watercourses; foraging	JQ
ET004	VP12	21/09/2022	14:42	Little Egret	1	improved agricultural grassland; foraging	JQ

1.4

Peregrine Falcon

Table 7 - 4 - 7 Peregrine Falcon vantage point survey data

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
PE001	VP1	01/05/2021	13:18	Peregrine Falcon	1	510	0	0	160	350	mixed broadleaved/conifer woodland, conifer plantation and improved agricultural grassland; soaring, hunting, peregrine soaring, hunting.	TK

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
PE002	VP4	28/04/2022	06:15	Peregrine Falcon	1	60	0	40	20	0	improved agricultural grassland, treelines and hedgerows; hunting, flight, swooping., peregrine falcon flying west over farmland, swooping at other birds near trees	SOB
PE003	VP4	28/04/2022	06:25	Peregrine Falcon	1	45	0	0	45	0	improved agricultural grassland, treelines and hedgerows; carrying food. traveling east., peregrine falcon carrying caught jackdaw east. followed by hooded crow, then hooded crow flew away.	SOB
PE004	VP2	02/11/2022	14:38	Peregrine Falcon	1	34	0	0	34	0	conifer plantation; adult flying steadily east at 120-150m height, adult	MOC
PE005	VP2	26/01/2023	12:46	Peregrine Falcon	1	85	0	0	85	0	conifer plantation and improved agricultural grassland; circling at 70-100m height rising to 120m before long shallow dive to the north east, adult	MOC

Table 7 - 4 - 8 Peregrine Falcon incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
PE001	Waterbird Distribution Survey; pond near the Graffin crossroads	02/12/2022	13:20	Peregrine Falcon	1	improved agricultural grassland, mesotrophic lakes and reed and large sedge swamps; hunting	TS

1.5

Whooper Swan

Table 7 - 4 - 9 Whooper Swan vantage point survey data

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
WS001	VP4	28/09/2022	10:45	Whooper Swan	3	40	0	0	3	0	wet grassland; flying	TS

1.6

Curlew

Table 7 - 4 - 10 Curlew vantage point survey data

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
CU001	VP5	29/09/2022	16:55	Curlew	3	15	15	0	0	0	recently-felled woodland; flying, hunting	TS

1.7

Grey Wagtail

Table 7 - 4 - 11 Grey Wagtail vantage point survey data

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
GL001	VP4	30/11/2021	not recorded	Grey Wagtail	1	-	-	-	-	-	eroding/upland rivers and improved agricultural grassland; flying over	TK
GL002	VP1	17/12/2021	not recorded	Grey Wagtail	1	-	-	-	-	-	wet grassland; flying over, landed in small drain, stream	TK
GL003	VP1	21/05/2022	18:40	Grey Wagtail	1	0	0	0	0	0	present	MOC
GL005	VP4	29/07/2022	16:16	Grey Wagtail	1	10	10	0	0	0	eroding/upland rivers; flying	TS
GL006	VP4	29/07/2022	17:44	Grey Wagtail	1	10	0	10	0	0	improved agricultural grassland; flying	TS
GL007	VP1	17/02/2023	08:35	Grey Wagtail	1	-	-	-	-	-	conifer plantation;	MOC
GL008	VP4	23/02/2023	07:30	Grey Wagtail	2	-	-	-	-	-	conifer plantation;	MOC

Table 7 - 4 - 12 Grey Wagtail breeding walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
GL001	19/04/2021	11:55	Grey Wagtail	1	eroding/upland rivers and wet grassland; calling, by stream, up from stream in field close to road (suitable nesting habitat; possible breeder)	AM
GL002	19/05/2021	14:25	Grey Wagtail	1	drainage ditches and conifer plantation; calling, bird calling from by track (suitable nesting habitat; possible breeder)	AM
GL003	23/05/2022	11:30	Grey Wagtail	1	present	MOC

Table 7 - 4 - 13 Grey Wagtail waterbird distribution and abundance survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
GL001	Clashnacrony	18/08/2021	12:48	Grey Wagtail	1	depositing/lowland rivers; foraging	JG
GL002	Drumminacunna	27/04/2022	12:41	Grey Wagtail	1	eroding/upland rivers; foraging	SOB
GL003	VP15	05/08/2022	11:02	Grey Wagtail	1	lakes and ponds and improved agricultural grassland; foraging	JQ
GL004	VP14	05/08/2022	12:34	Grey Wagtail	2	lakes and ponds and improved agricultural grassland; flying	JQ
GL005	VP5	07/09/2022	12:49	Grey Wagtail	1	watercourses; flying	JQ
GL006	Turraheen Bridge	08/10/2022	11:50	Grey Wagtail	2	eroding/upland rivers; flying, calling, down the bridge @ 52.64086, -8.00081	TS
GL007	Rossmore	08/10/2022	12:35	Grey Wagtail	1	eroding/upland rivers; calling, upstream of the bridge @ 52.60543, -8.01274	TS
GL008	Bonarea South	08/10/2022	17:01	Grey Wagtail	1	eroding/upland rivers; flying, calling, down the bridge @ 52.58772, -8.10835	TS

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
GL009	Rossmore	28/10/2022	12:55	Grey Wagtail	1	eroding/upland rivers and buildings and artificial surfaces; flying, calling, downstream of the bridge @ 52.6054, -8.0127	TS
GL010	near the breadge	25/11/2022	11:10	Grey Wagtail	1	eroding/upland rivers and mixed broadleaved woodland; flying	TS
GL011	52.587482, -8.130539	13/02/2023	11:15	Grey Wagtail	2	eroding/upland rivers; flying, perching	TS
GL012	Ironmills bridge	13/02/2023	12:10	Grey Wagtail	1	eroding/upland rivers; perched, downstream	TS
GL013	52.5823, -8.1288	27/02/2023	12:40	Grey Wagtail	1	eroding/upland rivers; perched	TS
GL014	Ironmills bridge	14/03/2023	12:24	Grey Wagtail	2	eroding/upland rivers; flying, downstream	TS
GL015	bridge south of Rossmore	30/03/2023	17:30	Grey Wagtail	1	eroding/upland rivers and buildings and artificial surfaces; flying, perching	TS
GL016	River Muuiteen	16/05/2023	17:01	Grey Wagtail	4	improved grassland; flight	AM

Table 7-4-14 Grey Wagtail incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
GL001	Breeding Raptor Survey; near BR2	08/04/2022	13:39	Grey Wagtail	1	eroding/upland rivers; flying, perching	TS
GL002	Breeding Raptor Survey; bridge near br2	03/05/2022	16:08	Grey Wagtail	1	eroding/upland rivers;	TS

1.8

Kestrel

Table 7-4-15 Kestrel vantage point survey data

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
K.001	VP5	29/04/2021	15:20	Kestrel	1	215	0	215	0	0	immature woodland, improved agricultural grassland and hedgerows; hunting, male kestrel hunting	TK
K.002	VP3	01/05/2021	07:02	Kestrel	1	125	0	80	45	0	immature woodland and improved agricultural grassland; hunting, male kestrel hunting	TK
K.003	VP4	07/05/2021	15:20	Kestrel	1	110	110	0	0	0	built land and wet grassland; hunting, hovering close to farm sheds	TR
K.004	VP4	07/05/2021	15:32	Kestrel	1	140	140	0	0	0	conifer plantation and wet grassland; hunting	TR
K.005	VP4	07/05/2021	16:31	Kestrel	1	40	40	0	0	0	wet grassland and conifer plantation; hunting	TR
K.006	VP4	07/05/2021	16:44	Kestrel	1	420	420	0	0	0	wet grassland; hunting	TR
K.007	VP1	29/05/2021	09:55	Kestrel	1	125	0	185	40	0	improved agricultural grassland and scrub; hunting, male kestrel hunting	TK



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
K.008	VP4	31/05/2021	06:55	Kestrel	1	45	0	15	30	0	improved agricultural grassland and conifer plantation; soaring, circling up, soaring then away toward forestry	AM
K.009	VP5	04/06/2021	14:57	Kestrel	1	210	210	0	0	0	hedgerows and improved agricultural grassland; hunting	TR
K.010	VP5	04/06/2021	16:08	Kestrel	1	340	20	200	120	0	conifer plantation and semi-natural grassland; hunting, male	TR
K.011	VP5	04/06/2021	16:11	Kestrel	1	45	45	0	0	0	conifer plantation; travelling flight	TR
K.012	VP5	04/06/2021	16:19	Kestrel	1	60	0	60	0	0	conifer plantation; hovering and travelling on	TR
K.013	VP5	04/06/2021	17:07	Kestrel	1	140	0	0	140	0	conifer plantation; hunting/hovering	TR
K.014	VP5	04/06/2021	17:21	Kestrel	1	750	0	200	550	0	conifer plantation; hunting	TR
K.015	VP1	11/06/2021	09:23	Kestrel	1	312	0	312	0	0	wet grassland and conifer plantation; hunting	TK
K.016	VP4	21/06/2021	17:26	Kestrel	1	130	130	0	0	0	semi-natural grassland, improved agricultural grassland and conifer plantation; hunting, hovering	TR
K.017	VP5	12/07/2021	14:19	Kestrel	2	340	0	25	315	0	improved agricultural grassland, conifer plantation and scrub; hunting, hovering	TK
K.018	VP4	17/07/2021	10:20	Kestrel	1	148	0	148	0	0	improved agricultural grassland, hedgerows and scrub; hunting	TK
K.019	VP3	25/07/2021	12:46	Kestrel	1	20	0	20	0	0	improved agricultural grassland and hedgerows; hunting, male kestrel hunting.	TK
K.020	VP2	29/07/2021	11:30	Kestrel	1	30	0	30	0	0	semi-natural grassland; perched, flying, adult male	SA
K.021	VP2	29/07/2021	16:40	Kestrel	1	65	0	15	50	0	conifer plantation; flying, sex, age unknown	SA
K.022	VP1	30/07/2021	09:10	Kestrel	1	55	0	0	55	0	conifer plantation and semi-natural grassland; flying, hunting, sex, age unknown	SA
K.023	VP4	31/07/2021	15:12	Kestrel	1	235	25	160	50		improved agricultural grassland, scrub and conifer plantation; hunting.	TK
K.024	VP5	13/08/2021	15:35	Kestrel	1	85	85	0	0	0	scrub and conifer plantation; hunting, female	JG
K.025	VP5	13/08/2021	16:02	Kestrel	1	205	195	10	0	0	scrub; hunting, female	JG
K.026	VP5	13/08/2021	16:58	Kestrel	1	220	200	20	0	0	scrub and conifer plantation; hunting/perched, female, perched on tree stump for approx. 5mins before hunting again	JG
K.028	VP5	13/08/2021	18:31	Kestrel	1	640	340	300	0	0	scrub and conifer plantation; hunting, female	JG
K.029	VP3	16/08/2021	13:11	Kestrel	1	185	0	0	185	0	immature woodland, scrub and improved agricultural grassland; hunting, hovering	TK
K.030	VP3	16/08/2021	14:08	Kestrel	1	210	0	20	190	0	conifer plantation; soaring, hunting	TK

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
K.031	VP5	25/08/2021	13:17	Kestrel	1	245	120	125	0	0	scrub and conifer plantation; hunting, female	JG
K.032	VP5	25/08/2021	13:44	Kestrel	1	365	335	30	0	0	scrub and conifer plantation; hunting/perched, female hunting, the was preening for approx 15mins on a dead standing sitka spruce	JG
K.033	VP5	25/08/2021	14:00	Kestrel	1	150	120	30	0	0	scrub, improved agricultural grassland and mixed broadleaved woodland; hunting, female	JG
K.034	VP5	25/08/2021	14:15	Kestrel	1	215	180	35	0	0	scrub, hedgerows and improved agricultural grassland; hunting, female	JG
K.035	VP5	25/08/2021	14:44	Kestrel	1	170	170	0	0	0	scrub, improved agricultural grassland and highly modified/non-native woodland; hunting, female	JG
K.036	VP5	25/08/2021	14:58	Kestrel	1	180	180	0	0	0	conifer plantation and scrub; hunting/perched, female, perched on dead standing sitka spruce before moving off again	JG
K.037	VP5	25/08/2021	15:31	Kestrel	1	70	0	50	20	0	improved agricultural grassland and scrub; travelling flight,, female	JG
K.038	VP5	25/08/2021	15:55	Kestrel	1	75	75	0	0	0	conifer plantation, scrub/transitional woodland and mixed broadleaved woodland; hunting, female	JG
K.039	VP2	28/08/2021	08:23	Kestrel	2	335	0	25	310	0	conifer plantation; hovering, hunting, 2 kestrels in air together	TK
K.040	VP2	28/08/2021	09:45	Kestrel	1	85	0	85	0	0	improved agricultural grassland and conifer plantation; hunting, hovering, kestrel in flight, hovering briefly.	TK
K.041	VP1	30/08/2021	10:57	Kestrel	1	170	0	0	170	0	improved agricultural grassland and conifer plantation; hunting ,hovering	TK
K.042	VP1	30/08/2021	11:08	Kestrel	1	65	0	65	0	0	improved agricultural grassland and wet grassland; hunting, hovering	TK
K.043	VP1	30/08/2021	11:21	Kestrel	1	195	0	165	30	0	improved agricultural grassland and wet grassland; hunting ,hovering	TK
K.044	VP1	30/08/2021	11:24	Kestrel	1	20	0	0	20	0	improved agricultural grassland and wet grassland; flying, kestrel in flight towards other kestrel	TK
K.045	VP1	30/08/2021	11:25	Kestrel	2	210	0	130	80	0	improved agricultural grassland and wet grassland; hunting, hovering, 2 kestrels in air together	TK
K.046	VP1	30/08/2021	12:26	Kestrel	1	45	0	45	0	0	improved agricultural grassland and wet grassland; hunting, hovering	TK
K.047	VP1	30/08/2021	14:18	Kestrel	1	275	0	65	210	0	conifer plantation and wet grassland; hunting, hovering	TK
K.048	VP4	31/08/2021	18:11	Kestrel	1	395	60	335	0	0	improved agricultural grassland, hedgerows and mixed broadleaved woodland; hunting, female - hunting then perched on tree	JG



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
K.049	VP4	31/08/2021	19:24	Kestrel	1	260	0	260	0	0	improved agricultural grassland, hedgerows and mixed broadleaved/conifer woodland; hunting	JG
K.050	VP4	31/08/2021	19:37	Kestrel	1	170	0	150	20	0	improved agricultural grassland and mixed broadleaved woodland; hunting	JG
K.051	VP1	10/09/2021	18:07	Kestrel	2	160	0	140	20	0	conifer plantation and scrub; hunting, 2 birds hunting	JG
K.052	VP3	22/09/2021	14:12	Kestrel	2	150	0	0	150	0	conifer plantation and improved agricultural grassland; hunting, mobbed by swallows, 2x females	JG
K.053	VP5	30/09/2021	14:30	Kestrel	1	410	120	290	0	0	conifer plantation, improved agricultural grassland and scrub; hunting, female	JG
K.054	VP5	30/09/2021	14:40	Kestrel	1	185	0	185	0	0	conifer plantation and scrub; hunting, female	JG
K.055	VP5	30/09/2021	14:56	Kestrel	1	310	270	40	0	0	conifer plantation; hunting	JG
K.056	VP5	30/09/2021	15:01	Kestrel	1	60	0	60	0	0	conifer plantation and improved agricultural grassland; travelling flight	JG
K.057	VP5	30/09/2021	15:24	Kestrel	1	125	115	10	0	0	conifer plantation; hunting	JG
K.058	VP5	30/09/2021	15:37	Kestrel	1	175	115	60	0	0	conifer plantation and scrub; hunting	JG
K.059	VP5	30/09/2021	15:48	Kestrel	1	255	230	25	0	0	conifer plantation, improved agricultural grassland and scrub; hunting, female	JG
K.060	VP5	30/09/2021	17:15	Kestrel	1	663	163	500	0	0	conifer plantation and scrub; hunting, female	JG
K.061	VP5	30/09/2021	17:47	Kestrel	1	102	102	0	0	0	conifer plantation and scrub; hunting, female	JG
K.062	VP5	30/09/2021	18:06	Kestrel	1	260	200	60	0	0	conifer plantation and scrub; hunting, female	JG
K.063	VP5	30/09/2021	18:41	Kestrel	1	195	195	0	0	0	conifer plantation and scrub; hunting, female, saw catching prey	JG
K.064	VP5	07/10/2021	08:15	Kestrel	1	340	0	150	190	0	immature woodland and scrub; hunting, male	TK
K.065	VP5	07/10/2021	12:20	Kestrel	1	115	0	0	115	0	immature woodland and scrub; hunting, male	TK
K.066	VP1	15/10/2021	not recorded	Kestrel	1	280	0	20	260	0	immature woodland, wet grassland and conifer plantation; hunting,	TK
K.067	VP2	28/10/2021	not recorded	Kestrel	1	265	0	30	235	0	immature woodland; hunting	TK
K.068	VP4	29/10/2021	not recorded	Kestrel	1	428	0	0	428	0	improved agricultural grassland, wet grassland and hedgerows; hunting	TK
K.069	VP4	29/10/2021	not recorded	Kestrel	1	95	0	35	60	0	improved agricultural grassland, wet grassland and hedgerows; hunting	TK
K.070	VP5	03/11/2021	not recorded	Kestrel	1	95	0	95	0	0	conifer plantation and improved agricultural grassland; hunting	TK



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
K.071	VP5	03/11/2021	not recorded	Kestrel	1	412	20	110	282	0	conifer plantation; hunting	TK
K.072	VP5	03/11/2021	not recorded	Kestrel	1	210	0	0	210	0	conifer plantation; hunting	TK
K.073	VP2	22/11/2021	not recorded	Kestrel	1	90	0	0	90	0	conifer plantation; hunting	TK
K.074	VP1	29/11/2021	not recorded	Kestrel	1	120	30	90	0	0	wet grassland and conifer plantation; male kestrel hunting, went to ground.	TK
K.075	VP1	29/11/2021	not recorded	Kestrel	1	22	0	22	0	0	wet grassland, conifer plantation and treelines; in flight, kestrel flew to perch on tree.	TK
K.076	VP1	29/11/2021	not recorded	Kestrel	1	-	-	-	-	-	wet grassland and treelines; perched, kestrel flew to perch on tree, was there for approx. 20 min. didn't see when it flew off.	TK
K.077	VP1	29/11/2021	not recorded	Kestrel	1	250	0	85	165	0	conifer plantation, wet grassland and improved agricultural grassland; hunting, male kestrel hunting.	TK
K.078	VP4	30/11/2021	not recorded	Kestrel	1	268	0	98	170	0	improved agricultural grassland and wet grassland; hunting	TK
K.079	VP2	03/12/2021	not recorded	Kestrel	1	135	0	105	30	0	improved agricultural grassland and conifer plantation; hunting	TK
K.080	VP2	03/12/2021	not recorded	Kestrel	1	310	0	0	310	0	conifer plantation; hunting	TK
K.081	VP5	04/12/2021	not recorded	Kestrel	1	285	0	45	240	0	conifer plantation and scrub; hunting	TK
K.082	VP1	17/12/2021	not recorded	Kestrel	1	375	0	120	255	0	conifer plantation and wet grassland; hunting	TK
K.083	VP4	28/12/2021	not recorded	Kestrel	1	145	0	0	145	0	improved agricultural grassland and conifer plantation; hunting.	TK
K.084	VP5	08/01/2022	not recorded	Kestrel	1	310	0	95	215	0	conifer plantation; hunting over young conifer plantation	TK
K.085	VP1	24/01/2022	not recorded	Kestrel	1	280	0	260	20	0	wet grassland and improved agricultural grassland; hunting over young conifer plantation	TK
K.086	VP1	24/01/2022	not recorded	Kestrel	1	98	0		98	0	conifer plantation; hunting	TK
K.087	VP4	19/02/2022	not recorded	Kestrel	1	250	20	60	170	0	wet grassland and improved agricultural grassland; hunting	TK
K.088	VP1	28/02/2022	not recorded	Kestrel	1	245	0	85	160	0	wet grassland, conifer plantation and improved agricultural grassland; hunting	TK
K.089	VP1	14/03/2022	14:09	Kestrel	1	132	0	22	110	0	conifer plantation; hunting, hovering	TK



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
K.090	VP1	14/03/2022	14:57	Kestrel	1	55	0	20	35	0	conifer plantation; hunting, hovering	TK
K.091	VP1	14/03/2022	15:22	Kestrel	1	185	0	25	160	0	conifer plantation; hunting, hovering	TK
K.092	VP1	14/03/2022	16:23	Kestrel	1	195	0	15	180	0	conifer plantation; hunting, hovering	TK
K.093	VP3	15/03/2022	16:18	Kestrel	1	215	0	170	45	0	conifer plantation; hunting, hovering	TK
K.094	VP4	20/03/2022	16:28	Kestrel	1	240	0	160	80	0	wet grassland and improved agricultural grassland; hunting	TK
K.095	VP4	20/03/2022	18:36	Kestrel	1	170	0	25	145	0	improved agricultural grassland; hunting	TK
K.096	VP5	30/03/2022	18:02	Kestrel	1	315	0	290	25	0	conifer plantation; hunting	TK
K.097	VP1	12/04/2022	19:16	Kestrel	1	54	10	44	0	0	conifer plantation; hunting, adult male, over forestry at 10-25m height	MOC
K.098	VP2	13/04/2022	18:21	Kestrel	1	260	0	190	70	0	conifer plantation; hunting, adult male, over forestry at 15-35m height	MOC
K.099	VP3	14/04/2022	17:55	Kestrel	1	112	11	28	73	0	improved agricultural grassland; hunting, adult male, at 5-55m height	MOC
K.100	VP5	28/04/2022	11:09	Kestrel	1	25	2	23	0	0	conifer plantation and recently-felled woodland; flight, travelling, perching., male kestrel flew to tall conifer tree, perched briefly, flew west.	SOB
K.101	VP5	28/04/2022	11:45	Kestrel	1	360	5	15	215	125	recently-felled woodland and conifer plantation; soaring, riding thermals. hunting, hovering, flight., male kestrel soaring over felled forestry riding thermals, flew north started hovering then flew east hovering at different points	SOB
K.102	VP1	21/05/2022	19:58	Kestrel	1	75	25	50	0	0	conifer plantation; hunting over young forestry 10-20m, adult male	MOC
K.103	VP1	21/05/2022	20:36	Kestrel	1	190	10	85	95	0	conifer plantation; hunting over young forestry at 12-40m height, adult male	MOC
K.104	VP3	23/05/2022	21:01	Kestrel	1	42	0	0	42	0	conifer plantation and improved agricultural grassland; flying across valley at 40-80m, adult male	MOC
K.105	VP1	13/07/2022	14:38	Kestrel	1	25	0	25	0	0	conifer plantation; flying	TS
K.106	VP2	14/07/2022	15:35	Kestrel	1	180	0	40	140	0	recently-felled woodland; flying hunting	TS
K.107	VP5	21/07/2022	14:45	Kestrel	2	40	40	0	0	0	recently-felled woodland; flying, perching	TS
K.108	VP5	21/07/2022	17:44	Kestrel	1	-	-	-	-	-	wet grassland; calling	TS
K.109	VP1	25/07/2022	12:40	Kestrel	1	20	20	0	0	0	recently-felled woodland; flying	TS
K.110	VP1	25/07/2022	13:41	Kestrel	1	850	50	50	750	0	recently-felled woodland and conifer plantation; flying hunting	TS



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
K.111	VP1	25/07/2022	13:50	Kestrel	1	120	10	30	80	0	recently-felled woodland; flying hunting	TS
K.112	VP1	25/07/2022	14:00	Kestrel	1	40	10	10	20	0	recently-felled woodland; flying hunting	TS
K.113	VP1	25/07/2022	14:42	Kestrel	1	200	10	10	180	0	recently-felled woodland and wet grassland; flying hunting	TS
K.114	VP1	25/07/2022	16:05	Kestrel	1	190	30	40	120	0	recently-felled woodland; flying hunting	TS
K.115	VP1	25/07/2022	16:50	Kestrel	1	60	20	40	0	0	recently-felled woodland; flying	TS
K.116	VP1	25/07/2022	17:00	Kestrel	1	10	0	10	0	0	conifer plantation; flying	TS
K.117	VP1	25/07/2022	18:28	Kestrel	1	240	40	100	100	0	recently-felled woodland; flying hunting	TS
K.118	VP1	25/07/2022	18:50	Kestrel	1	190	10	20	160	0	recently-felled woodland and conifer plantation; flying	TS
K.119	VP3	28/07/2022	17:32	Kestrel	1	25	0	0	25	0	wet grassland; flying	TS
K.120	VP4	29/07/2022	13:50	Kestrel	1	140	0	0	140	0	wet grassland; flying hunting	TS
K.121	VP5	31/07/2022	12:35	Kestrel	1	15	15	0	0	0	recently-felled woodland; flying	TS
K.122	VP5	31/07/2022	12:40	Kestrel	1	60	0	15	45	0	wet grassland; flying hunting	TS
K.123	VP1	02/08/2022	12:40	Kestrel	1	40	30	10	0	0	wet grassland; flying, hunting	TS
K.124	VP1	02/08/2022	13:08	Kestrel	2	50	0	0	50	0	recently-felled woodland and conifer plantation; flying	TS
K.125	VP1	02/08/2022	13:21	Kestrel	2	220	20	150	50	0	recently-felled woodland and wet grassland; flying, hunting	TS
K.126	VP1	02/08/2022	13:59	Kestrel	1	10	0	10	0	0	wet grassland; flying	TS
K.127	VP1	02/08/2022	15:10	Kestrel	1	90	0	40	50	0	wet grassland; flying, hunting	TS
K.128	VP1	02/08/2022	15:30	Kestrel	1	80	0	80	0	0	recently-felled woodland; hunting	TS
K.129	VP1	02/08/2022	15:59	Kestrel	1	20	20	0	0	0	wet grassland; flying	TS
K.130	VP1	02/08/2022	16:30	Kestrel	1	120	100	20	0	0	recently-felled woodland and wet grassland; flying, hunting	TS
K.131	VP1	02/08/2022	17:02	Kestrel	1	150	20	80	50	0	conifer plantation and recently-felled woodland; flying, hunting perched, remained perched feeding.	TS
K.132	VP2	03/08/2022	12:44	Kestrel	1	300	0	20	280	0	recently-felled woodland; flying, hunting	TS
K.133	VP2	03/08/2022	12:49	Kestrel	1	60	0	0	60	0	recently-felled woodland and scrub; hunting	TS
K.134	VP2	03/08/2022	13:45	Kestrel	1	50	0	10	40	0	wet grassland and scrub; flying	TS
K.135	VP2	03/08/2022	14:10	Kestrel	1	25	5	20	0	0	scrub; hunting	TS
K.136	VP2	03/08/2022	15:35	Kestrel	1	100	0	40	60	0	recently-felled woodland; hunting	TS



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
K.137	VP2	03/08/2022	15:52	Kestrel	1	90	10	80	0	0	wet grassland and scrub; flying	TS
K.138	VP2	03/08/2022	16:38	Kestrel	2	40	0	40	0	0	wet grassland; flying	TS
K.139	VP2	03/08/2022	17:15	Kestrel	1	60	0	60	0	0	wet grassland and conifer plantation; flying, hunting	TS
K.140	VP2	03/08/2022	17:46	Kestrel	1	80	0	50	30	0	wet grassland and scrub; flying, hunting	TS
K.141	VP2	03/08/2022	18:13	Kestrel	1	60	0	0	60	0	recently-felled woodland; hunting	TS
K.142	VP3	04/08/2022	17:00	Kestrel	1	70	0	70	0	0	wet grassland; flying, hunting	TS
K.143	VP3	04/08/2022	17:19	Kestrel	1	30	30	0	0	0	wet grassland; flying	TS
K.144	VP4	11/08/2022	08:37	Kestrel	1	215	70	90	55	0	improved agricultural grassland and conifer plantation; adult male hunting at 10-40m height, adult male	MOC
K.145	VP5	13/08/2022	09:02	Kestrel	1	36	0	0	36	0	conifer plantation and improved agricultural grassland; flying at 40-50m height, adult	MOC
K.146	VP4	12/09/2022	15:38	Kestrel	1	150	60	90	0	0	improved agricultural grassland, treelines and hedgerows; hunting, hovering, evading being mobbed., juvenile kestrel hovering over farmland, trying to catch swallows in the air and evading being mobbed	SOB
K.147	VP4	12/09/2022	15:41	Kestrel	1	-	-	-	-	-	hedgerows and improved agricultural grassland; hunting, juvenile kestrel hunting, perched on treeline, dived down briefly trying to catch rodent then returned to perch	SOB
K.148	VP4	12/09/2022	15:44	Kestrel	1	35	15	20	0	0	linear woodland/scrub and improved agricultural grassland; hunting, hovering, juvenile kestrel hovering, went to perch	SOB
K.149	VP4	12/09/2022	15:48	Kestrel	1	190	40	150	0	0	improved agricultural grassland and linear woodland/scrub; evading being mobbed., juvenile kestrel chased off by crow, then resumed hovering, went to perch on hedgerow	SOB
K.150	VP4	12/09/2022	15:52	Kestrel	1	210	90	80	40	0	hedgerows and improved agricultural grassland; hunting, hovering, juvenile kestrel chased away by crow, then started hovering over farmland, flew to hedgerow and perched	SOB
K.151	VP4	12/09/2022	15:55	Kestrel	1	-	-	-	-	-	hedgerows; hunting, perched scanning., juvenile kestrel, perched on hedgerow, scanning for prey	SOB
K.152	VP4	12/09/2022	15:59	Kestrel	1	55	55	0	0	0	hedgerows and improved agricultural grassland; hunting, diving flight., juvenile kestrel, dived from	SOB



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
											perch, caught shrew, ate it then flew away and out of sight.	
K.153	VP4	12/09/2022	16:30	Kestrel	1	125	15	110	0	0	improved agricultural grassland and hedgerows; hunting, hovering, juvenile kestrel hovering	SOB
K.154	VP4	12/09/2022	16:41	Kestrel	1	-	-	-	-	-	hedgerows and improved agricultural grassland; hunting, perched, scanning, juvenile kestrel perched, on telephone pole scanning and looking for prey	SOB
K.155	VP4	12/09/2022	16:44	Kestrel	1	130	50	80	0	0	improved agricultural grassland and treelines; hunting, hovering, kestrel hovering over farmland perched on treeline	SOB
K.156	VP4	12/09/2022	16:48	Kestrel	1	-	-	-	-	-	treelines; perched, juvenile kestrel perched on spruce tree in treeline	SOB
K.157	VP4	12/09/2022	16:55	Kestrel	1	245	60	155	30	0	improved agricultural grassland and linear woodland/scrub; hunting, hovering, juvenile kestrel	SOB
K.158	VP5	13/09/2022	15:10	Kestrel	1	-	-	-	-	-	recently-felled woodland and conifer plantation; perched, scanning, juvenile kestrel, perched on tip of dead spruce tree	SOB
K.159	VP5	13/09/2022	15:14	Kestrel	1	145	100	15	30	0	recently-felled woodland and conifer plantation; hunting, hovering, flight, juvenile kestrel, hovering, went to perch at edge of forestry.	SOB
K.160	VP5	13/09/2022	15:18	Kestrel	1	-	-	-	-	-	conifer plantation and recently-felled woodland; perched scanning, kestrel juvenile perched at edge of forestry looking over felled forest	SOB
K.161	VP5	13/09/2022	15:19	Kestrel	1	35	10	25	0	0	recently-felled woodland and conifer plantation; hunting, hovering, flight, diving, juvenile kestrel spotted prey, started hovering and dived down	SOB
K.162	VP5	13/09/2022	15:21	Kestrel	1	25	25	0	0	0	conifer plantation and recently-felled woodland; hunting, hovering, juvenile kestrel briefly hovering then returned to perch	SOB
K.163	VP5	13/09/2022	15:21	Kestrel	1	-	-	-	-	-	conifer plantation; perched, scanning, juvenile kestrel perched on spruce tree	SOB
K.164	VP5	13/09/2022	15:24	Kestrel	1	70	10	30	30	0	recently-felled woodland and conifer plantation; hunting, hovering, juvenile kestrel	SOB
K.165	VP5	13/09/2022	17:21	Kestrel	1	-	-	-	-	-	conifer plantation; eating, juvenile kestrel eating something it caught.	SOB
K.166	VP1	24/09/2022	11:38	Kestrel	1	50	20	20	10	0	wet grassland and buildings and artificial surfaces; flying, perched	TS
K.167	VP1	24/09/2022	14:38	Kestrel	1	180	90	90	0	0	recently-felled woodland and conifer plantation; flying, hunting	TS



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
K.168	VP1	24/09/2022	14:48	Kestrel	1	180	0	150	30	0	recently-felled woodland and conifer plantation; flying, hunting	TS
K.169	VP1	24/09/2022	16:15	Kestrel	2	90	0	10	80	0	wet grassland and conifer plantation; flying	TS
K.170	VP1	24/09/2022	16:40	Kestrel	1	160	60	100	0	0	recently-felled woodland; hunting	TS
K.171	VP2	25/09/2022	13:32	Kestrel	1	240	60	180	0	0	wet grassland and scrub; flying, hunting	TS
K.172	VP2	25/09/2022	14:47	Kestrel	1	10	10	0	0	0	wet grassland; perched, flying	TS
K.173	VP2	25/09/2022	16:15	Kestrel	1	60	0	60	0	0	wet grassland; hunting	TS
K.174	VP2	25/09/2022	17:10	Kestrel	1	120	20	80	20	0	wet grassland; flying, hunting	TS
K.175	VP3	26/09/2022	12:50	Kestrel	1	60	0	60	0	0	conifer plantation; flying	TS
K.176	VP3	26/09/2022	13:16	Kestrel	2	150	100	50	0	0	conifer plantation and wet grassland; flying	TS
K.177	VP3	26/09/2022	13:34	Kestrel	1	200	0	30	170	0	conifer plantation; flying, hunting	TS
K.178	VP3	26/09/2022	14:25	Kestrel	1	120	100	20	0	0	conifer plantation and wet grassland; flying, hunting	TS
K.179	VP1	26/09/2022	14:48	Kestrel	1	25	25	0	0	0	wet grassland and conifer plantation; hunting, flight, female kestrel flying over hillside disturbed meadow pipits and flew into forestry.	SOB
K.180	VP1	26/09/2022	14:55	Kestrel	1	35	15	20	0	0	wet grassland, recently-felled woodland and conifer plantation; flight, hunting, female kestrel flew over hillside startling meadow pipit, went to perch on a telephone pole	SOB
K.181	VP1	26/09/2022	14:55	Kestrel	1	-	-	-	-	-	wet grassland and buildings and artificial surfaces; hunting, scanning, perched, female kestrel perched on telephone pole for 8 mins using perch to scan for prey	SOB
K.182	VP1	26/09/2022	15:03	Kestrel	1	75	10	15	50	0	recently-felled woodland and conifer plantation; hunting, hovering, flight, female kestrel flew from perch, hovered over young forestry then perched on tall spruce tree	SOB
K.183	VP1	26/09/2022	15:05	Kestrel	1	-	-	-	-	-	conifer plantation and recently-felled woodland; hunting, perched, scanning, female kestrel perched at tip of spruce tree using perch to scan for prey, remained perched for 2 mins then flew out of view	SOB
K.184	VP3	26/09/2022	15:53	Kestrel	1	120	30	90	0	0	conifer plantation; flying, hunting	TS
K.185	VP1	26/09/2022	16:00	Kestrel	1	15	15	0	0	0	wet grassland, recently-felled woodland and buildings and artificial surfaces; flight, perch,	SOB



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
											female kestrel flying along road, perched on telephone pole	
K.186	VP1	26/09/2022	16:01	Kestrel	1	-	-	-	-	-	wet grassland, recently-felled woodland and buildings and artificial surfaces; perched hunting, scanning, female kestrel using perch to scan for prey	SOB
K.187	VP1	26/09/2022	16:06	Kestrel	1	180	30	110	40	0	recently-felled woodland, wet grassland and scrub; hunting, hovering, flight, female kestrel hunting, hovering	SOB
K.188	VP3	26/09/2022	16:38	Kestrel	1	180	140	40	0	0	conifer plantation and wet grassland; flying, hunting	TS
K.189	VP4	28/09/2022	11:22	Kestrel	1	15	15	0	0	0	wet grassland; perched, flying	TS
K.190	VP4	28/09/2022	12:18	Kestrel	1	20	20	0	0	0	wet grassland; flying	TS
K.191	VP5	29/09/2022	11:42	Kestrel	1	60	40	20	0	0	recently-felled woodland; flying, hunting	TS
K.192	VP5	29/09/2022	12:21	Kestrel	1	220	20	200	0	0	recently-felled woodland and wet grassland; flying, hunting	TS
K.193	VP5	29/09/2022	12:45	Kestrel	1	140	40	100	0	0	recently-felled woodland; flying, hunting	TS
K.194	VP1	24/10/2022	10:49	Kestrel	1	195	25	130	40	0	conifer plantation; hunting at 10-35m height, adult male	MOC
K.195	VP1	24/10/2022	11:17	Kestrel	1	65	0	65	0	0	improved agricultural grassland and conifer plantation; hunting at 20-35m height, young male	MOC
K.196	VP1	24/10/2022	13:20	Kestrel	1	37	0	0	37	0	conifer plantation; flying at 40-50m height, female	MOC
K.197	VP1	24/10/2022	14:35	Kestrel	1	130	20	110	0	0	improved agricultural grassland and conifer plantation; hunting at 12-25m height, adult male	MOC
K.198	VP1	24/10/2022	16:03	Kestrel	1	82	0	15	67	0	improved agricultural grassland and conifer plantation; hunting at 20-100m height, adult male	MOC
K.199	VP2	25/10/2022	10:09	Kestrel	1	43	20	23	0	0	improved agricultural grassland and conifer plantation; flying w at 6 to 20m height, juvenile female	MOC
K.200	VP2	25/10/2022	11:32	Kestrel	1	72	0	50	22	0	improved agricultural grassland and conifer plantation; hunting at 20-35m height, (same?) juvenile female	MOC
K.201	VP2	25/10/2022	13:12	Kestrel	1	315	10	75	230	0	improved agricultural grassland and conifer plantation; hunting over fields at 2-80m height, adult male	MOC
K.202	VP2	25/10/2022	13:22	Kestrel	1	23	0	0	23	0	improved agricultural grassland and conifer plantation; flying at 70-80m height, adult male	MOC



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
K.203	VP2	25/10/2022	14:59	Kestrel	1	73	0	20	53	0	conifer plantation and improved agricultural grassland; flying at 20-35m height, adult male	MOC
K.204	VP3	26/10/2022	08:39	Kestrel	1	73	20	53	0	0	conifer plantation; hunting hovering at 12-20m height, adult male	MOC
K.205	VP3	26/10/2022	09:40	Kestrel	1	75	0	60	15	0	conifer plantation; flying at 20-30m height, adult male	MOC
K.206	VP3	26/10/2022	10:10	Kestrel	1	22	0	0	22	0	conifer plantation and improved agricultural grassland; flying at 70-80m height, adult male	MOC
K.207	VP3	26/10/2022	11:57	Kestrel	1	75	0	0	75	0	conifer plantation; flying high to east at 100-140m height	MOC
K.208	VP3	26/10/2022	13:00	Kestrel	1	52	15	37	0	0	conifer plantation; flying, hunting at 12-20m height	MOC
K.209	VP4	30/10/2022	09:47	Kestrel	1	18	0	12	6	0	improved agricultural grassland and conifer plantation; flying over at 15-30m height, adult male	MOC
K.210	VP4	30/10/2022	10:10	Kestrel	1	75	0	8	67	0	conifer plantation; hunting at 20-60m height, female	MOC
K.211	VP4	30/10/2022	13:11	Kestrel	1	165	20	110	35	0	conifer plantation; hunting, hovering at 15-60m height	MOC
K.212	VP5	31/10/2022	08:16	Kestrel	1	125	0	20	105	0	conifer plantation and improved agricultural grassland; flying at 10-25m height, adult male	MOC
K.213	VP5	31/10/2022	09:46	Kestrel	1	16	0	0	16	0	conifer plantation; flying at 40m height, female	MOC
K.214	VP5	31/10/2022	12:02	Kestrel	1	36	0	36	0	0	conifer plantation; flying over forestry at 15m height, adult male	MOC
K.215	VP1	01/11/2022	13:02	Kestrel	1	42	0	42	0	0	conifer plantation and improved agricultural grassland; flying north at 20-25m height, female	MOC
K.216	VP1	01/11/2022	13:09	Kestrel	1	135	30	55	50	0	conifer plantation; hunting at 15-50m height, female	MOC
K.217	VP1	01/11/2022	15:07	Kestrel	1	46	0	20	26	0	conifer plantation and improved agricultural grassland; flying south at 20-40m height, female	MOC
K.218	VP2	02/11/2022	12:21	Kestrel	1	117	0	117	0	0	improved agricultural grassland and conifer plantation; flying at 20m height	MOC
K.219	VP2	02/11/2022	12:30	Kestrel	1	67	0	0	67	0	improved agricultural grassland and conifer plantation; flying at 30-100m height into strong wind, female	MOC
K.220	VP2	02/11/2022	12:56	Kestrel	1	135	0	25	110	0	improved agricultural grassland and conifer plantation; flying at 20-80m height, trying to hunt in strong wind	MOC
K.221	VP3	12/11/2022	09:32	Kestrel	1	14	0	14	0	0	improved agricultural grassland; hunting at 10-15m height, adult male	MOC



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
K.222	VP3	12/11/2022	10:42	Kestrel	1	225	0	110	115	0	conifer plantation and improved agricultural grassland; hunting at 20-80m height, female	MOC
K.223	VP3	12/11/2022	12:03	Kestrel	1	105	15	90	0	0	conifer plantation; hunting at 5-20m height, female	MOC
K.224	VP3	12/11/2022	13:14	Kestrel	1	65	36	29	0	0	conifer plantation; hunting at 10-20m height, female (same bird as above two sightings)	MOC
K.225	VP3	12/11/2022	14:03	Kestrel	1	26	26	0	0	0	conifer plantation; flying at 10-20m height, female	MOC
K.226	VP4	13/11/2022	12:02	Kestrel	1	142	0	0	142	0	conifer plantation; hovering over forestry at 100-120m height, adult male	MOC
K.227	VP4	13/11/2022	14:06	Kestrel	1	37	5	32	0	0	improved agricultural grassland; flying at 10-20m height, adult male	MOC
K.228	VP4	13/11/2022	14:51	Kestrel	1	50	0	50	0	0	improved agricultural grassland and conifer plantation; flying at 20m height	MOC
K.229	VP5	14/11/2022	09:29	Kestrel	1	29	0	29	0	0	improved agricultural grassland; flying at 20-25m height, adult male	MOC
K.230	VP5	14/11/2022	13:52	Kestrel	1	65	0	15	50	0	conifer plantation; flying at 20-50m height, female	MOC
K.231	VP5	14/11/2022	15:15	Kestrel	1	36	0	36	0	0	improved agricultural grassland; flying south west at 20-25m height, adult male	MOC
K.232	VP1	28/12/2022	09:15	Kestrel	1	82	15	25	42	0	improved agricultural grassland and conifer plantation; hunting over rough fields, forestry at 12-35m height, adult male	MOC
K.233	VP1	28/12/2022	10:40	Kestrel	1	135	0	135	0	0	improved agricultural grassland and conifer plantation; hunting over rough fields, forestry at 15-25m height, adult male	MOC
K.234	VP1	28/12/2022	10:59	Kestrel	1	105	60	45	0	0	improved agricultural grassland and conifer plantation; hunting over rough fields, forestry at 3-25m height, adult male (same individual as above two records)	MOC
K.235	VP2	29/12/2022	12:23	Kestrel	1	77	0	20	57	0	conifer plantation and improved agricultural grassland; hunting over forestry at 15-40m height, adult male	MOC
K.236	VP3	30/12/2022	08:55	Kestrel	1	260	0	140	120	0	conifer plantation; hunting , hovering at 20-40m height, adult male	MOC
K.237	VP1	25/01/2023	10:29	Kestrel	1	38	22	16	0	0	conifer plantation; flying west at 12-20m height, adult male	MOC
K.238	VP1	25/01/2023	10:50	Kestrel	1	63	20	43	0	0	conifer plantation and semi-natural grassland; hunting at 10-25m height, adult male	MOC
K.239	VP1	25/01/2023	11:46	Kestrel	1	30	0	30	0	0	conifer plantation and improved agricultural grassland; flying at 20-30m height, adult male	MOC



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
K.240	VP2	26/01/2023	12:20	Kestrel	1	78	0	30	48	0	conifer plantation; circling, hunting at 20-60m height, adult male	MOC
K.241	VP2	26/01/2023	15:27	Kestrel	1	16	16	0	0	0	improved agricultural grassland; flying low across field at 5-7m height, perched on post for 15 seconds, then flew north at 5m height	MOC
K.242	VP3	27/01/2023	09:18	Kestrel	1	40	0	40	0	0	conifer plantation and improved agricultural grassland; flying at 20-40m height, adult male	MOC
K.243	VP3	27/01/2023	09:44	Kestrel	1	135	0	90	45	0	conifer plantation and improved agricultural grassland; flying, hunting at 15-40m height, adult male	MOC
K.244	VP3	27/01/2023	13:07	Kestrel	1	260	40	125	95	0	conifer plantation; hunting over young forestry at 10 - 60m height, adult male	MOC
K.245	VP4	28/01/2023	10:00	Kestrel	1	150	20	110	20	0	conifer plantation; flying, hunting over young forestry at 15-30m height, adult female	MOC
K.246	VP4	28/01/2023	11:43	Kestrel	1	840	30	340	470	0	conifer plantation and improved agricultural grassland; flying, hunting over young forestry for 14 mins., at 6-75m height, adult male	MOC
K.247	VP4	28/01/2023	13:26	Kestrel	1	70	0	0	70	0	conifer plantation and improved agricultural grassland; flying sw at 40m height, adult female	MOC
K.248	VP5	29/01/2023	10:40	Kestrel	1	70	15	32	23	0	conifer plantation and improved agricultural grassland; flying over forestry at 10-40m height, adult female	MOC
K.249	VP5	29/01/2023	11:41	Kestrel	1	18	0	18	0	0	conifer plantation; flying at 25m height, adult male	MOC
K.250	VP5	29/01/2023	13:37	Kestrel	1	210	0	170	40	0	conifer plantation; hunting over young forestry at 20-40m height, adult male	MOC
K.251	VP1	17/02/2023	07:59	Kestrel	1	86	12	35	39	0	conifer plantation and improved agricultural grassland; hunting at 10-40m height, adult male	MOC
K.252	VP1	17/02/2023	10:12	Kestrel	1	32	0	32	0	0	conifer plantation and improved agricultural grassland; flying at 20-25m height, adult female	MOC
K.253	VP1	17/02/2023	12:04	Kestrel	1	45	0	20	25	0	conifer plantation; flying east south east at 20-60m height, adult male	MOC
K.254	VP2	20/02/2023	09:48	Kestrel	1	22	0	10	12	0	improved agricultural grassland and conifer plantation; flying at 20-40m height, adult male	MOC
K.255	VP2	20/02/2023	12:09	Kestrel	1	370	0	90	280	0	conifer plantation; hunting, hovering over 2nd rotation forestry at 20-50m height, adult male	MOC
K.256	VP2	20/02/2023	13:23	Kestrel	1	125	0	0	125	0	improved agricultural grassland and conifer plantation; hunting at 30-60m height, adult male	MOC
K.257	VP2	20/02/2023	15:08	Kestrel	1	185	0	0	185	0	conifer plantation; hovering, hunting over forestry at 40-90m height, adult male	MOC



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
K.258	VP3	21/02/2023	09:09	Kestrel	1	24	0	24	0	0	conifer plantation; flying south east at 20-25m height, adult male	MOC
K.259	VP3	21/02/2023	10:16	Kestrel	1	73	0	40	33	0	improved agricultural grassland and conifer plantation; hunting at 20-40m height, adult male	MOC
K.260	VP4	23/02/2023	07:55	Kestrel	1	55	10	45	0	0	improved agricultural grassland and conifer plantation; flying at 10-30m height, female	MOC
K.261	VP4	23/02/2023	12:15	Kestrel	1	28	0	0	28	0	conifer plantation; flying at 25-35m height, adult male	MOC
K.263	VP1	05/03/2023	12:41	Kestrel	1	75	15	60	0	0	conifer plantation; hunting over forestry at 20-35m height, adult male	MOC
K.264	VP1	05/03/2023	17:40	Kestrel	1	135	20	115	0	0	conifer plantation; hunting over forestry at 20-80m height, female	MOC
K.265	VP2	06/03/2023	17:38	Kestrel	1	13	13	0	0	0	improved agricultural grassland; flying n at 10-12m height, adult male	MOC
K.266	VP3	09/03/2023	14:07	Kestrel	2	38	0	0	38	0	conifer plantation; soaring together, calling, at 100-150m height, adult male and adult female	MOC
K.267	VP3	09/03/2023	14:20	Kestrel	1	140	5	75	60	0	conifer plantation; hunting at 0 to 70m height. pounced on prey on ground but didn't catch anything, adult male	MOC
K.268	VP4	11/03/2023	12:09	Kestrel	1	29	29	0	0	0	improved agricultural grassland; flying at 20-25m height, adult male	MOC
K.269	VP4	11/03/2023	12:28	Kestrel	1	37	0	37	0	0	improved agricultural grassland; flying at 30-40m height, adult male	MOC
K.270	VP5	12/03/2023	14:00	Kestrel	1	128	12	105	11	0	conifer plantation; flying/ hunting, pounced on prey (mouse/shrew). flying at 0-35m height, female	MOC
K.271	VP5	12/03/2023	16:16	Kestrel	1	125	0	90	35	0	conifer plantation and improved agricultural grassland; hunting at 15-60m height, adult male	MOC
K.272	VP5	12/03/2023	16:50	Kestrel	1	47	0	47	0	0	conifer plantation; flying over forestry at 15-25m height, adult male	MOC

Table 7 - 4 - 16 Kestrel winter walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
K.001	27/10/2021	09:54	Kestrel	1	immature woodland; hunting	TK
K.002	13/10/2022	13:27	Kestrel	1	recently-felled woodland and conifer plantation; hunting, hovering. flight alert., female or juvenile kestrel hovering over felled forestry and young conifer plantation, flew over to mature conifers as a second kestrel came	SOB
K.003	13/10/2022	13:28	Kestrel	1	recently-felled woodland and conifer plantation; hunting, hovering, perched, scanning, flight, territorial., 2nd female or juvenile kestrel chased the 1st one, then perched on spruce tree then flew off and hovered some more, overing young felled forestry.	SOB

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
K.004	13/10/2022	15:04	Kestrel	1	conifer plantation; perched, alert, flight., kestrel perched on spruce tree, took off heading north west over forestry as I approached.	SOB
K.005	13/10/2022	18:20	Kestrel	1	wet grassland and highly modified/non-native woodland; hunting, soaring, kestrel soaring over wet grassland fields by vp1, headed back towards woodland.	SOB
K.006	21/12/2022	11:22	Kestrel	1	conifer plantation; hunting, hunting over young forestry	AM
K.007	24/01/2023	09:52	Kestrel	1	conifer plantation; flying south southwest at 15-30m height, adult male	MOC
K.008	24/01/2023	09:59	Kestrel	1	conifer plantation and improved agricultural grassland; flying, hunting at 5-35m height, adult male	MOC
K.009	24/01/2023	12:25	Kestrel	1	conifer plantation; hunting, hovering at 15-45m height, adult male	MOC
K.010	24/01/2023	13:31	Kestrel	1	conifer plantation; flying high over forestry at 80-120m height, adult male	MOC
K.011	16/03/2023	13:45	Kestrel	1	conifer plantation and recently-felled woodland; hunting	TS
K.012	16/03/2023	14:30	Kestrel	1	conifer plantation and recently-felled woodland; hunting	TS

Table 7 - 4 - 17 Kestrel breeding walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
K.001	28/04/2021	10:42	Kestrel	1	conifer plantation and wet grassland; hunting, bird hunting then away into forestry (suitable nesting habitat; possible breeder)	AM
K.002	19/05/2021	14:10	Kestrel	1	conifer plantation; hunting, bird hunting then away into forestry (suitable nesting habitat; possible breeder)	AM
K.003	08/06/2021	16:51	Kestrel	1	conifer plantation; hunting, hunting over plantation, dropped down to ground (suitable nesting habitat; possible breeder)	AM
K.005	19/07/2021	11:00	Kestrel	1	conifer plantation and scrub; hunting, hunting clearfell and travelling over forestry (flyover; non-breeding)	TR
K.007	13/04/2022	11:22	Kestrel	1	conifer plantation; hunting over forestry, adult male (suitable nesting habitat; possible breeder)	MOC
K.008	13/04/2022	13:15	Kestrel	1	conifer plantation and improved agricultural grassland; hunting over young forestry, fields, adult male (suitable nesting habitat; possible breeder)	MOC
K.009	14/04/2022	11:33	Kestrel	1	conifer plantation and improved agricultural grassland; hunting over forestry, adult male at 15-60m height (suitable nesting habitat; possible breeder)	MOC
K.011	22/05/2022	16:38	Kestrel	1	conifer plantation; calling, hunting, at 30-60m height, adult male (suitable nesting habitat; possible breeder)	MOC
K.012	06/07/2022	16:34	Kestrel	1	conifer plantation; foraging (suitable nesting habitat; possible breeder)	JQ
K.013	26/07/2022	12:03	Kestrel	1	conifer plantation and immature woodland; hovering (suitable nesting habitat; possible breeder)	JOM
K.014	26/07/2022	12:25	Kestrel	1	immature woodland and conifer plantation; hovering, flying, hunting (suitable nesting habitat; possible breeder)	JOM
K.015	26/07/2022	12:35	Kestrel	1	conifer plantation, immature woodland and improved agricultural grassland; flight (suitable nesting habitat; possible breeder)	JOM
K.016	26/07/2022	12:51	Kestrel	1	conifer plantation and immature woodland; flight , perched (suitable nesting habitat; possible breeder)	JOM
K.017	26/07/2022	12:52	Kestrel	2	immature woodland and conifer plantation; flight, hovering , perching (pair; probable breeding)	JOM

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
K.018	26/07/2022	12:53	Kestrel	1	immature woodland; hovering, saw this individual when observing another kestrel (suitable nesting habitat; possible breeder)	JOM
K.019	26/07/2022	13:01	Kestrel	1	immature woodland; perched (suitable nesting habitat; possible breeder)	JOM
K.020	26/07/2022	13:04	Kestrel	1	immature woodland and conifer plantation; hovering, hunting , perched (suitable nesting habitat; possible breeder)	JOM
K.021	27/07/2022	12:18	Kestrel	1	conifer plantation and immature woodland; flight, hovering , calling, flew into tree cover and did not reappear (suitable nesting habitat; possible breeder)	JOM
K.022	27/07/2022	12:26	Kestrel	1	immature woodland; flight, hovering , hunting (suitable nesting habitat; possible breeder)	JOM

Table 7 - 4 - 18 Kestrel breeding raptor survey data

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
K.001	BR1	16/04/2021	10:22	Kestrel	1	mixed broadleaved/conifer woodland and scrub, hunting, male kestrel hunting, hovering.	suitable nesting habitat; possible breeder	TK
K.002	BR2	14/05/2021	10:18	Kestrel	1	improved agricultural grassland, conifer plantation and mixed broadleaved/conifer woodland, hunting, male kestrel hunting	suitable nesting habitat; possible breeder	TK
K.004	BR3	01/06/2021	11:56	Kestrel	1	improved agricultural grassland, wet grassland and mixed broadleaved/conifer woodland, hunting, male kestrel hunting.	suitable nesting habitat; possible breeder	TK
K.005	BR9	12/06/2021	15:33	Kestrel	1	improved agricultural grassland and mixed broadleaved/conifer woodland, hunting.	suitable nesting habitat; possible breeder	TK
K.006	BR9	26/06/2021	15:18	Kestrel	1	improved agricultural grassland and conifer plantation, hunting.	suitable nesting habitat; possible breeder	TK
K.007	BR5	09/07/2021	11:48	Kestrel	1	improved agricultural grassland and mixed broadleaved/conifer woodland, hunting, female kestrel hunting.	suitable nesting habitat; possible breeder	TK
K.008	BR6	10/07/2021	14:18	Kestrel	1	upland blanket bog and conifer plantation, hunting over clearfell bog.	suitable nesting habitat; possible breeder	TK
K.009	BR2	08/04/2022	13:29	Kestrel	1	wet grassland, flying	suitable nesting habitat; possible breeder	TS
K.011	BR8	22/04/2022	15:33	Kestrel	1	recently-felled woodland and wet grassland, hunting, lost behind cops of conifers	suitable nesting habitat; possible breeder	TS
K.013	BR1	03/05/2022	12:26	Kestrel	1	oak-ash-hazel woodland and improved agricultural grassland, soaring, circling, lost far north	suitable nesting habitat; possible breeder	TS
K.014	BR8	13/05/2022	12:37	Kestrel	1	wet grassland, conifer plantation and oak-ash-hazel woodland, flying	suitable nesting habitat; possible breeder	TS
K.015	BR9	19/05/2022	17:42	Kestrel	1	recently-felled woodland and conifer plantation, mobbing hunting	suitable nesting habitat; possible breeder	TS
K.016	BR1	19/05/2022	19:26	Kestrel	1	conifer plantation, flying	suitable nesting habitat; possible breeder	TS
K.017	BR1	19/05/2022	19:41	Kestrel	1	conifer plantation, flying	suitable nesting habitat; possible breeder	TS
K.018	BR1	19/05/2022	20:24	Kestrel	1	conifer plantation, flying	suitable nesting habitat; possible breeder	TS
K.019	BR1	04/06/2022	15:40	Kestrel	1	recently-felled woodland and wet grassland, flying, hunting	suitable nesting habitat; possible breeder	TS

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
K.020	BR8	09/06/2022	16:12	Kestrel	1	wet grassland and conifer plantation, flying, male	suitable nesting habitat; possible breeder	TS
K.021	BR8	09/06/2022	16:55	Kestrel	1	wet grassland, flying, hunting, male	suitable nesting habitat; possible breeder	TS
K.022	BR2	21/07/2022	12:06	Kestrel	1	dry meadows and grassy verges and conifer plantation, in flight, male	suitable nesting habitat; possible breeder	CG
K.023	BR8	25/07/2022	13:28	Kestrel	1	conifer plantation, improved agricultural grassland and wet grassland, hunting	suitable nesting habitat; possible breeder	CG
K.026	BR8	25/07/2022	13:52	Kestrel	1	immature woodland and conifer plantation, hunting, male, hunting over newly planted coniferous plantation	suitable nesting habitat; possible breeder	CG
K.027	BR7	26/07/2022	09:54	Kestrel	1	bogs and conifer plantation, hunting	suitable nesting habitat; possible breeder	CG
K.028	BR7	26/07/2022	10:00	Kestrel	1	bogs and conifer plantation, hunting, male	suitable nesting habitat; possible breeder	CG
K.029	BR7	26/07/2022	10:07	Kestrel	1	bogs and conifer plantation, hunting, male	suitable nesting habitat; possible breeder	CG
K.030	BR7	26/07/2022	11:18	Kestrel	1	bogs and conifer plantation, hunting	suitable nesting habitat; possible breeder	CG

Table 7 - 4 - 19 Kestrel incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
K.001	Breeding Woodcock Survey; Glengarby	24/05/2021	22:42	Kestrel	1	conifer plantation; hunting on wd4	JG
K.002	Hen Harrier Roost Survey; HHVP3	08/12/2021	15:48	Kestrel	1	wet grassland, improved agricultural grassland and conifer plantation; hunting, hovering for approx. 6 mins	TK
K.003	Hen Harrier Roost Survey; HHVP2	25/01/2022	16:44	Kestrel	1	conifer plantation and scrub; hunting over young forestry plantation/scrub	TK
K.004	Hen Harrier Roost Survey; HHVP 6	27/02/2022	17:54	Kestrel	1	wet grassland and conifer plantation; hunting/hovering.	TK
K.005	Breeding Woodcock Survey; 500m South of start of transect 1	08/06/2022	20:49	Kestrel	1	recently-felled woodland and conifer plantation; hunting	TS
K.006	Breeding Woodcock Survey; south end of transect 1	08/06/2022	21:15	Kestrel	1	recently-felled woodland; hunting	TS
K.007	Waterbird Distribution Survey; VP9	29/08/2022	13:53	Kestrel	1	improved agricultural grassland; flying	JQ
K.008	Vantage Point Survey; Moheragh	13/09/2022	14:00	Kestrel	1	improved agricultural grassland, recently-felled woodland and conifer plantation; hovering	SOB
K.009	Hen Harrier Roost Survey; 100m South from HHVP1	03/10/2022	19:02	Kestrel	1	wet grassland; flying, flying low westerly direction	TS
K.010	Hen Harrier Roost Survey; 250m North East of HHVP5	08/10/2022	18:15	Kestrel	1	upland blanket bog; hunting, hunting 5 min	TS
K.011	Hen Harrier Roost Survey; 700m East South East of HHVP1	05/11/2022	15:53	Kestrel	1	recently-felled woodland; hunting	TS

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
K.012	Hen Harrier Roost Survey; 500m South East of HHVP1	05/11/2022	16:02	Kestrel	1	recently-felled woodland and scrub; hunting	TS
K.013	Hen Harrier Roost Survey; 800m west of hhp5	16/01/2023	15:38	Kestrel	1	wet grassland; hunting	TS
K.014	Hen Harrier Roost Survey; near HHVP5	14/02/2023	16:10	Kestrel	1	upland blanket bog and improved agricultural grassland; flying, hunting	TS
K.015	Waterbird Distribution Survey; turraheen bridge	14/03/2023	13:45	Kestrel	1	improved agricultural grassland and treelines; flying, perching	TS
K.016	Hen Harrier Roost Survey; near HHVP6	14/03/2023	16:58	Kestrel	1	conifer plantation; flying low	TS

1.9

Meadow Pipit

Table 7 - 4 - 20 Meadow Pipit vantage point survey data

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
MP001	VP3	29/04/2021	18:30	Meadow Pipit	1	0	0	0	0	0	present	TK
MP004	VP3	01/05/2021	not recorded	Meadow Pipit	4	0	0	0	0	0	immature woodland; in suitable breeding habitat h., 4 meadow pipits seen in area of young conifer plantation/rough grassland. suitable breeding habitat.	TK
MP005	VP2	07/05/2021	11:00	Meadow Pipit	1	0	0	0	0	0	present	TR
MP006	VP5	15/05/2021	not recorded	Meadow Pipit	5	0	0	0	0	0	immature woodland; in suitable breeding habitat, 5 meadow pipits seen in area of young conifer plantation/rough grassland. suitable breeding habitat.	TK
MP007	VP5	15/05/2021	not recorded	Meadow Pipit	4	0	0	0	0	0	immature woodland; in suitable breeding habitat, 4 meadow pipits seen in area of young conifer plantation/rough grassland. suitable breeding habitat.	TK
MP013	VP5	12/07/2021	not recorded	Meadow Pipit	10	-	-	-	-	-	scrub and conifer plantation; in breeding habitat, meadow pipits in suitable breeding habitat.	TK
MP014	VP5	13/08/2021	15:30	Meadow Pipit	1	0	0	0	0	0	present	JG
MP015	VP3	16/08/2021	12:23	Meadow Pipit	6	-	-	-	-	-	improved agricultural grassland; flying over, 6 meadow pipits in flight over field, landed in field.	TK



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
MP016	VP4	13/09/2021	14:00	Meadow Pipit	1	-	-	-	-	-	present	JG
MP017	VP5	29/09/2021	13:30	Meadow Pipit	1	-	-	-	-	-	present	JG
MP018	VP5	07/10/2021	not recorded	Meadow Pipit	3	-	-	-	-	-	immature woodland and scrub; in suitable habitat, 3 meadow pipits around vp during survey.	TK
MP019	VP1	15/10/2021	not recorded	Meadow Pipit	2	-	-	-	-	-	wet grassland; in suitable habitat, 2 meadow pipits around vp during survey.	TK
MP020	VP5	03/11/2021	not recorded	Meadow Pipit	3	-	-	-	-	-	conifer plantation; in suitable habitat, 3 meadow pipits around vp	TK
MP021	VP1	29/11/2021	not recorded	Meadow Pipit	4	-	-	-	-	-	wet grassland;	TK
MP022	VP2	03/12/2021	not recorded	Meadow Pipit	2	-	-	-	-	-	improved agricultural grassland; feeding	TK
MP023	VP5	04/12/2021	not recorded	Meadow Pipit	3	-	-	-	-	-	conifer plantation; in suitable habitat	TK
MP024	VP1	17/12/2021	not recorded	Meadow Pipit	2	-	-	-	-	-	wet grassland; in suitable habitat	TK
MP025	VP1	24/01/2022	not recorded	Meadow Pipit	3	-	-	-	-	-	wet grassland; around vp	TK
MP028	VP3	01/03/2022	not recorded	Meadow Pipit	4	-	-	-	-	-	conifer plantation; in suitable habitat	TK
MP030	VP3	15/03/2022	12:30	Meadow Pipit	4	-	-	-	-	-	improved agricultural grassland; feeding in grassland, 4 meadow pipits around vp.	TK
MP037	VP1	13/07/2022	13:10	Meadow Pipit	4	-	-	-	-	-	wet grassland; calling	TS
MP038	VP1	13/07/2022	16:30	Meadow Pipit	4	-	-	-	-	-	wet grassland; calling	TS
MP039	VP2	14/07/2022	11:05	Meadow Pipit	2	-	-	-	-	-	wet grassland; calling	TS
MP040	VP3	19/07/2022	11:50	Meadow Pipit	3	-	-	-	-	-	recently-felled woodland; calling	TS
MP041	VP3	19/07/2022	15:31	Meadow Pipit	3	-	-	-	-	-	recently-felled woodland; calling	TS
MP042	VP5	21/07/2022	13:45	Meadow Pipit	2	-	-	-	-	-	recently-felled woodland; calling	TS
MP043	VP5	21/07/2022	17:30	Meadow Pipit	3	-	-	-	-	-	recently-felled woodland; calling	TS
MP044	VP1	25/07/2022	12:40	Meadow Pipit	2	-	-	-	-	-	wet grassland; calling	TS
MP045	VP1	25/07/2022	16:00	Meadow Pipit	2	-	-	-	-	-	wet grassland; calling	TS
MP046	VP2	27/07/2022	12:35	Meadow Pipit	6	-	-	-	-	-	wet grassland; perched	TS
MP047	VP2	27/07/2022	16:00	Meadow Pipit	3	-	-	-	-	-	wet grassland; calling	TS



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
MP048	VP1	02/08/2022	11:20	Meadow Pipit	5	-	-	-	-	-	wet grassland; calling	TS
MP049	VP1	02/08/2022	15:15	Meadow Pipit	1	-	-	-	-	-	wet grassland; calling	TS
MP050	VP3	04/08/2022	16:11	Meadow Pipit	1	-	-	-	-	-	recently-felled woodland; calling	TS
MP051	VP4	11/08/2022	07:10	Meadow Pipit	1	-	-	-	-	-	improved agricultural grassland;	MOC
MP052	VP5	13/08/2022	08:00	Meadow Pipit	1	-	-	-	-	-	conifer plantation;	MOC
MP053	VP4	23/08/2022	06:50	Meadow Pipit	1	-	-	-	-	-	improved agricultural grassland;	MOC
MP054	VP5	23/08/2022	10:45	Meadow Pipit	1	-	-	-	-	-	conifer plantation;	MOC
MP055	VP5	13/09/2022	19:15	Meadow Pipit	4	-	-	-	-	-	improved agricultural grassland, wet grassland and recently-felled woodland; flight, foraging, calling, meadow pipits seen throughout survey. max seen of 4. foraging in field with mistle thrushes	SOB
MP056	VP2	22/09/2022	15:30	Meadow Pipit	1	-	-	-	-	-	improved agricultural grassland; flight, travelling, meadow pipits travelling over farmland heading north	SOB
MP057	VP1	22/09/2022	18:40	Meadow Pipit	4	-	-	-	-	-	recently-felled woodland; flight, 4 meadow pipit seen flying over felled forestry	SOB
MP058	VP1	24/09/2022	10:40	Meadow Pipit	5	-	-	-	-	-	wet grassland; calling flying	TS
MP059	VP1	24/09/2022	14:10	Meadow Pipit	5	-	-	-	-	-	wet grassland; calling flying	TS
MP060	VP2	25/09/2022	11:05	Meadow Pipit	2	-	-	-	-	-	improved agricultural grassland; calling flying	TS
MP061	VP3	26/09/2022	12:40	Meadow Pipit	1	-	-	-	-	-	conifer plantation; calling flying	TS
MP062	VP1	26/09/2022	14:45	Meadow Pipit	8	-	-	-	-	-	wet grassland; calling, foraging, alert, flight., meadow pipits seen throughout survey, max of 8 seen when flushed out by female kestrel.	SOB
MP063	VP5	29/09/2022	10:35	Meadow Pipit	4	-	-	-	-	-	recently-felled woodland; calling flying	TS
MP064	VP5	29/09/2022	17:10	Meadow Pipit	3	-	-	-	-	-	wet grassland; calling flying	TS
MP065	VP1	24/10/2022	10:35	Meadow Pipit	1	0	0	0	0	0	present	MOC
MP066	VP2	25/10/2022	09:40	Meadow Pipit	1	0	0	0	0	0	present	MOC
MP067	VP3	26/10/2022	08:15	Meadow Pipit	1	0	0	0	0	0	present	MOC
MP068	VP4	30/10/2022	08:35	Meadow Pipit	1	0	0	0	0	0	present	MOC
MP069	VP5	31/10/2022	07:45	Meadow Pipit	1	0	0	0	0	0	present	MOC



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
MP070	VP1	01/11/2022	11:25	Meadow Pipit	1	0	0	0	0	0	present	MOC
MP071	VP2	02/11/2022	09:20	Meadow Pipit	1	0	0	0	0	0	present	MOC
MP072	VP3	12/11/2022	09:10	Meadow Pipit	9	0	0	0	0	0	present	MOC
MP073	VP4	13/11/2022	10:40	Meadow Pipit	1	0	0	0	0	0	present	MOC
MP074	VP5	14/11/2022	08:30	Meadow Pipit	3	0	0	0	0	0	present	MOC
MP075	VP2	29/12/2022	10:10	Meadow Pipit	3	-	-	-	-	-	conifer plantation; throughout survey, was noted as non-target and the position was just put near the vp	MOC
MP076	VP3	30/12/2022	08:40	Meadow Pipit	4	-	-	-	-	-	conifer plantation; throughout survey, was noted as non-target and the position was just put near the vp	MOC
MP077	VP3	30/12/2022	08:40	Meadow Pipit	4	-	-	-	-	-	conifer plantation; throughout survey, was noted as non-target and the position was just put near the vp	MOC
MP078	VP1	25/01/2023	09:15	Meadow Pipit	1	-	-	-	-	-	conifer plantation; was noted as non-target and the position was just put near the vp	MOC
MP079	VP3	27/01/2023	08:40	Meadow Pipit	8	-	-	-	-	-	conifer plantation; , was noted as non-target and the position was just put near the vp	MOC
MP080	VP4	28/01/2023	09:05	Meadow Pipit	26	-	-	-	-	-	conifer plantation; including a flock of 16, was noted as non-target and the position was just put near the vp	MOC
MP081	VP5	29/01/2023	09:00	Meadow Pipit	18	-	-	-	-	-	conifer plantation; was noted as non-target and the position was just put near the vp	MOC
MP082	VP1	17/02/2023	08:35	Meadow Pipit	18	-	-	-	-	-	conifer plantation;	MOC
MP083	VP2	20/02/2023	09:20	Meadow Pipit	1	-	-	-	-	-	conifer plantation; display	MOC
MP084	VP3	21/02/2023	07:50	Meadow Pipit	12	-	-	-	-	-	conifer plantation;	MOC
MP086	VP5	24/02/2023	07:55	Meadow Pipit	16	-	-	-	-	-	conifer plantation;	MOC
MP087	VP1	05/03/2023	12:15	Meadow Pipit	6	-	-	-	-	-	conifer plantation; flying throughout survey	MOC
MP088	VP2	06/03/2023	12:50	Meadow Pipit	9	-	-	-	-	-	conifer plantation; flying throughout survey	MOC
MP089	VP3	09/03/2023	12:00	Meadow Pipit	9	-	-	-	-	-	conifer plantation; flying throughout survey	MOC
MP090	VP4	11/03/2023	12:05	Meadow Pipit	6	-	-	-	-	-	conifer plantation; flying throughout survey	MOC
MP091	VP5	12/03/2023	12:10	Meadow Pipit	19	-	-	-	-	-	conifer plantation; flying throughout survey	MOC

Table 7 - 4 - 21 Meadow Pipit winter walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
MP001	27/10/2021	09:20	Meadow Pipit	2	upland blanket bog and immature woodland; in suitable habitat	TK
MP002	27/10/2021	09:32	Meadow Pipit	1	immature woodland; in suitable habitat	TK
MP003	13/10/2022	13:05	Meadow Pipit	1	recently-felled woodland; flight, meadow pipit seen in felled conifer plantation	SOB
MP004	13/10/2022	13:35	Meadow Pipit	1	recently-felled woodland; flight calling, a second meadow pipit seen and heard in felled forestry area,	SOB
MP005	13/10/2022	17:55	Meadow Pipit	4	wet grassland, buildings and artificial surfaces and recently-felled woodland; foraging, flying, perched., 4 meadow pipit perched in wet grassland fields, foraging, flying, also seen perching on telephone wire.	SOB
MP006	21/12/2022	12:40	Meadow Pipit	1	wet grassland; flying, calling, calling in flight near road	AM
MP007	24/01/2023		Meadow Pipit	28	present	MOC
MP008	16/03/2023	11:16	Meadow Pipit	4	wet grassland; flying, calling	TS
MP009	16/03/2023	11:25	Meadow Pipit	4	wet grassland; flying, calling	TS
MP010	16/03/2023	11:30	Meadow Pipit	3	wet grassland; flying, calling	TS
MP011	16/03/2023	12:05	Meadow Pipit	1	wet grassland; flying, calling	TS
MP012	16/03/2023	12:35	Meadow Pipit	2	improved agricultural grassland; flying, calling	TS
MP013	16/03/2023	13:40	Meadow Pipit	1	conifer plantation and recently-felled woodland; flying, calling	TS
MP014	16/03/2023	14:35	Meadow Pipit	1	wet grassland; flying, calling	TS
MP015	16/03/2023	14:50	Meadow Pipit	1	wet grassland; flying, calling	TS
MP016	16/03/2023	15:10	Meadow Pipit	1	wet grassland; flying, calling	TS
MP017	16/03/2023	16:00	Meadow Pipit	1	improved agricultural grassland; flying, calling	TS
MP018	16/03/2023	16:20	Meadow Pipit	2	upland blanket bog; flying, calling	TS

Table 7 - 4 - 22 Meadow Pipit breeding walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
MP001	19/04/2021	11:30	Meadow Pipit	1	conifer plantation and scrub; in song, singing in young plantation (singing male; possible breeder)	AM
MP002	19/04/2021	14:55	Meadow Pipit	1	conifer plantation and scrub; calling, bird in young plantation (suitable nesting habitat; possible breeder)	AM
MP003	28/04/2021	09:40	Meadow Pipit	2	conifer plantation and scrub; in song, birds singing in young plantation, total of 6 seen on t1 route (singing male; possible breeder)	AM
MP004	28/04/2021	15:25	Meadow Pipit	1	conifer plantation; calling, bird in young plantation (suitable nesting habitat; possible breeder)	AM
MP005	28/04/2021	16:15	Meadow Pipit	1	conifer plantation and scrub; in song, bird in song, young plantation (singing male; possible breeder)	AM



Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
MP007	19/05/2021	12:25	Meadow Pipit	1	conifer plantation; calling, bird calling from clearfell (suitable nesting habitat; possible breeder)	AM
MP008	19/05/2021	14:15	Meadow Pipit	2	conifer plantation; in song, birds singing in plantation (singing male; possible breeder)	AM
MP009	19/05/2021	15:50	Meadow Pipit	1	conifer plantation; calling, bird calling from plantation (suitable nesting habitat; possible breeder)	AM
MP011	31/05/2021	19:50	Meadow Pipit	1	conifer plantation; calling, bird in young plantation (suitable nesting habitat; possible breeder)	AM
MP012	31/05/2021	19:55	Meadow Pipit	1	conifer plantation; calling, bird in young plantation (suitable nesting habitat; possible breeder)	AM
MP016	14/04/2022		Meadow Pipit	1	conifer plantation and improved agricultural grassland; singing (suitable nesting habitat; possible breeder)	MOC
MP019	06/07/2022	12:52	Meadow Pipit	1	improved agricultural grassland; foraging (singing male; possible breeder)	JQ
MP020	06/07/2022	13:06	Meadow Pipit	4	improved agricultural grassland; flying (singing male; possible breeder)	JQ
MP021	06/07/2022	13:26	Meadow Pipit	3	conifer plantation; flying, calling (singing male; possible breeder)	JQ
MP022	06/07/2022	13:42	Meadow Pipit	5	improved agricultural grassland; flying, singing (singing male; possible breeder)	JQ
MP023	06/07/2022	13:57	Meadow Pipit	3	improved agricultural grassland; flying (singing male; possible breeder)	JQ
MP024	06/07/2022	15:32	Meadow Pipit	1	conifer plantation; flying (singing male; possible breeder)	JQ
MP025	06/07/2022	16:23	Meadow Pipit	1	improved agricultural grassland; flying (singing male; possible breeder)	JQ
MP026	07/07/2022	12:00	Meadow Pipit	1	present	JQ
MP027	07/07/2022	12:17	Meadow Pipit	5	improved agricultural grassland; flying (singing male; possible breeder)	JQ
MP028	07/07/2022	12:57	Meadow Pipit	5	improved agricultural grassland; perching, singing (singing male; possible breeder)	JQ

Table 7 - 4 - 23 Meadow Pipit incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
MP003	Breeding Raptor Survey; near BR8	22/04/2022	14:37	Meadow Pipit	2	wet grassland; flying	TS
MP004	Breeding Raptor Survey; 100m North West from BR6	08/05/2022	16:20	Meadow Pipit	1	wet grassland; singing	TS
MP005	Breeding Raptor Survey; around BR8	13/05/2022	11:59	Meadow Pipit	3	wet grassland; calling	TS
MP006	Breeding Raptor Survey; 200m North	19/05/2022	17:08	Meadow Pipit	1	wet grassland; singing	TS
MP012	Breeding Raptor Survey; BR6	25/07/2022	11:40	Meadow Pipit	1	recently-felled woodland; flying	CG
MP013	Breeding Raptor Survey; BR6	25/07/2022	12:22	Meadow Pipit	2	recently-felled woodland; flying	CG
MP014	Hen Harrier Roost Survey; near HHVP5	08/10/2022	17:35	Meadow Pipit	19	upland blanket bog; flying	TS



Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
MP015	Hen Harrier Roost Survey; near HHVP6	26/10/2022	17:40	Meadow Pipit	8	wet grassland; perched, flying	TS
MP016	Hen Harrier Roost Survey; near HHVP5	09/11/2022	15:40	Meadow Pipit	3	upland blanket bog; flying, calling	TS
MP017	Hen Harrier Roost Survey; near HHVP2	16/11/2022	16:32	Meadow Pipit	2	conifer plantation; flying, calling	TS
MP018	Hen Harrier Roost Survey; field 200m South East of HHVP4	29/11/2022	16:10	Meadow Pipit	1	wet grassland; calling	TS
MP019	Hen Harrier Roost Survey; near hhvp5	02/12/2022	14:50	Meadow Pipit	3	upland blanket bog; flying	TS
MP020	Hen Harrier Roost Survey; near hhvp2	15/01/2023	16:51	Meadow Pipit	1	conifer plantation; flying calling	TS
MP021	Hen Harrier Roost Survey; near hhvp5	16/01/2023	16:57	Meadow Pipit	12	upland blanket bog; flying calling	TS
MP022	Hen Harrier Roost Survey; near hhvp4	20/01/2023	16:05	Meadow Pipit	1	wet grassland; flying calling	TS
MP023	Hen Harrier Roost Survey; near HHVP2	09/02/2023	17:24	Meadow Pipit	1	conifer plantation; flying	TS
MP024	Hen Harrier Roost Survey; near HHVP5	14/02/2023	16:10	Meadow Pipit	3	upland blanket bog; flying	TS
MP025	Hen Harrier Roost Survey; near HHVP4	27/02/2023	16:30	Meadow Pipit	33	wet grassland; flying, calling, perching on the ground	TS
MP026	Hen Harrier Roost Survey; near HHVP5	16/03/2023	17:20	Meadow Pipit	7	upland blanket bog; flying calling	TS
MP027	Hen Harrier Roost Survey; near HHVP1	30/03/2023	18:55	Meadow Pipit	1	wet grassland; flying calling	TS
MP028	Hen Harrier Roost Survey; near HHVP1	30/03/2023	19:23	Meadow Pipit	3	wet grassland; flying calling	TS

1.10

Pochard

Table 7 - 4 - 24 Pochard waterbird distribution and abundance survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
PO001	Marl bog	05/08/2021	15:18	Pochard	2	eutrophic lakes; foraging/preening, two juvenile pochards feeding/preening near reedbeds	JG
PO002	Marl bog	18/08/2021	14:03	Pochard	2	eutrophic lakes; foraging, both juvenile	JG
PO003	Marl Bog	16/09/2021	15:07	Pochard	2	eutrophic lakes; foraging, roosting, 2 juveniles, 5km from site boundary	JG
PO004	Marl Bog	29/09/2021	17:29	Pochard	1	eutrophic lakes; foraging, 5km from site boundary	JG

1.11 Redwing

Table 7 - 4 - 25 Redwing vantage point survey data

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
RE001	VP2	22/11/2021	not recorded	Redwing	12	-	-	-	-	-	improved agricultural grassland and hedgerows; feeding, 12 redwing in field and hedgerows near to vp.	TK
RE002	VP4	30/11/2021	not recorded	Redwing	16	-	-	-	-	-	improved agricultural grassland and hedgerows; feeding	TK
RE003	VP2	03/12/2021	not recorded	Redwing	8	-	-	-	-	-	improved agricultural grassland; feeding	TK
RE004	VP3	08/12/2021	not recorded	Redwing	6	-	-	-	-	-	improved agricultural grassland; feeding	TK
RE005	VP4	28/12/2021	not recorded	Redwing	10	-	-	-	-	-	improved agricultural grassland and hedgerows; feeding, 10 redwing feeding in field, hedgerows.	TK
RE006	VP1	24/01/2022	not recorded	Redwing	5	-	-	-	-	-	conifer plantation and improved agricultural grassland; flying over	TK
RE007	VP3	29/01/2022	not recorded	Redwing	8	-	-	-	-	-	improved agricultural grassland; feeding, 8 redwing landed in field to south of vp	TK
RE008	VP3	01/03/2022	not recorded	Redwing	8	-	-	-	-	-	improved agricultural grassland; feeding	TK
RE009	VP2	25/10/2022	09:40	Redwing	15	0	0	0	0	0	was recorded in non-target	MOC
RE010	VP3	26/10/2022	08:15	Redwing	2	0	0	0	0	0	was recorded in non-target	MOC
RE011	VP2	02/11/2022	09:20	Redwing	6	0	0	0	0	0	was recorded in non-target	MOC
RE012	VP3	12/11/2022	09:10	Redwing	35	0	0	0	0	0	was recorded in non-target	MOC
RE013	VP4	13/11/2022	10:40	Redwing	11	0	0	0	0	0	was recorded in non-target	MOC
RE014	VP5	14/11/2022	08:30	Redwing	3	0	0	0	0	0	was recorded in non-target	MOC
RE015	VP2	29/12/2022	10:10	Redwing	12	-	-	-	-	-	conifer plantation; throughout survey, was noted as non-target and the position was just put near the vp	MOC
RE016	VP3	30/12/2022	08:40	Redwing	25	-	-	-	-	-	conifer plantation; throughout survey, was noted as non-target and the position was just put near the vp	MOC
RE017	VP4	01/01/2023	09:40	Redwing	4	-	-	-	-	-	conifer plantation; throughout survey, was noted as non-target and the position was just put near the vp	MOC

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
RE018	VP5	02/01/2023	09:25	Redwing	4	-	-	-	-	-	conifer plantation; throughout survey, was noted as non-target and the position was just put near the vp	MOC
RE019	VP1	25/01/2023	09:15	Redwing		-	-	-	-	-	conifer plantation; , was noted as non-target and the position was just put near the vp	MOC
RE020	VP3	27/01/2023	08:40	Redwing	20	-	-	-	-	-	conifer plantation; including a flock of 14, was noted as non-target and the position was just put near the vp	MOC
RE021	VP4	28/01/2023	09:05	Redwing	4	-	-	-	-	-	conifer plantation; , was noted as non-target and the position was just put near the vp	MOC
RE022	VP4	23/02/2023	07:30	Redwing	3	-	-	-	-	-	conifer plantation;	MOC
RE023	VP5	24/02/2023	07:55	Redwing	6	-	-	-	-	-	conifer plantation;	MOC
RE024	VP4	11/03/2023	12:05	Redwing	3	-	-	-	-	-	conifer plantation; flying throughout survey	MOC

Table 7 - 4 - 26 Redwing winter walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
RE001	21/12/2022	11:49	Redwing	10	hedgerows and wet grassland; flying, in hedgerow, down to field	AM
RE002	24/01/2023		Redwing		was recorded in non-target	MOC

Table 7 - 4 - 27 Redwing incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
RE001	Hen Harrier Roost Survey; near HHVP6	26/10/2022	18:12	Redwing	12	wet grassland and conifer plantation; flying	TS
RE002	Hen Harrier Roost Survey; near HHVP1	05/11/2022	17:13	Redwing	1	hedgerows; calling	TS
RE003	Waterbird Distribution Survey; second bridge down from the Rossmore village	02/12/2022	11:20	Redwing	28	treelines and improved agricultural grassland; flying	TS
RE004	Waterbird Distribution Survey; in the field near the bridge 2km East North East from Dundrum (Cumask)	02/12/2022	11:45	Redwing	160	improved agricultural grassland and hedgerows; on the ground	TS
RE005	Waterbird Distribution Survey; second bridge down from the Rossmore village	22/12/2022	10:05	Redwing	24	treelines and improved agricultural grassland; flying	TS
RE006	Waterbird Distribution Survey; in the field near the bridge 2km East North East from Dundrum (Cumask)	22/12/2022	10:35	Redwing	65	improved agricultural grassland and hedgerows; on the ground	TS
RE007	Waterbird Distribution Survey; near bridge South West from Rossmore	04/01/2023	10:05	Redwing	40	improved agricultural grassland; flying	TS

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
RE008	Waterbird Distribution Survey; near the bridge 2km East North East from Dunderum (Cumask)	04/01/2023	11:50	Redwing	65	improved agricultural grassland; in field	TS
RE009	Hen Harrier Roost Survey; near hhvp3	18/01/2023	16:25	Redwing	4	conifer plantation and wet grassland; flying	TS
RE010	Waterbird Distribution Survey; Clonedarby bridge	20/01/2023	11:30	Redwing	12	improved agricultural grassland; in field	TS
RE011	Waterbird Distribution Survey; near the bridge 2km East North East from Dunderum (Cumask)	20/01/2023	11:50	Redwing	14	improved agricultural grassland; in field	TS
RE012	Waterbird Distribution Survey; lake near the Graffin crossroads	20/01/2023	13:30	Redwing	72	improved agricultural grassland; in field	TS
RE013	Hen Harrier Roost Survey; near HHVP3	01/03/2023	17:47	Redwing	1	wet grassland and conifer plantation; flying	TS
RE014	Hen Harrier Roost Survey; near HHVP2	08/03/2023	18:05	Redwing	49	conifer plantation and scrub; flying, perching	TS

1.12

Snipe

Table 7 - 4 - 28 Snipe vantage point survey data

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
SN001	VP1	26/09/2022	19:50	Snipe	1	15	15	0	0	0	wet grassland; flight, calling., snipe flew from one field to another calling	SOB
SN002	VP1	26/09/2022	20:06	Snipe	2	-	-	-	-	-	wet grassland; call, calls from at least two separate snipes heard from rushy fields	SOB
SN003	VP1	24/10/2022	10:58	Snipe	1	9	9	0	0	0	improved agricultural grassland; snipe flushed by cattle to 15m height	MOC
SN004	VP2	25/10/2022	11:51	Snipe	1	21	0	0	21	0	improved agricultural grassland and conifer plantation; flying e at 100m height	MOC
SN005	VP3	26/10/2022	10:16	Snipe	5	18	0	0	18	0	improved agricultural grassland and conifer plantation; flock of 5 snipe flying at 100-120m height	MOC
SN006	VP3	26/10/2022	13:58	Snipe	1	9	0	9	0	0	conifer plantation; flying, circling, at 20m height	MOC
SN007	VP4	30/10/2022	10:12	Snipe	1	10	5	5	0	0	improved agricultural grassland; flushed close to vp flying up to 25m height	MOC
SN008	VP5	14/11/2022	10:57	Snipe	2	16	0	16	0	0	improved agricultural grassland; x2 snipe flying over, calling, at 20m height	MOC
SN009	VP4	01/01/2023	11:12	Snipe	1	16	8	8	0	0	improved agricultural grassland; flying overhead at 10-20m height	MOC
SN010	VP3	27/01/2023	10:56	Snipe	1	7	7	0	0	0	conifer plantation; flying south west at 15m height	MOC

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
SN011	VP3	27/01/2023	15:02	Snipe	4	16	0	0	16	0	conifer plantation; loose flock, calling, flying at 20-25m height	MOC
SN012	VP4	28/01/2023	09:08	Snipe	1	13	0	0	13	0	conifer plantation and improved agricultural grassland; flying at 80m height	MOC
SN013	VP1	17/02/2023	11:23	Snipe	1	10	0	0	10	0	improved agricultural grassland and conifer plantation; flying at 80-100m height	MOC
SN014	VP5	24/02/2023	08:02	Snipe	1	6	6	0	0	0	conifer plantation; flying at 15m height	MOC
SN015	VP5	12/03/2023	16:59	Snipe	2	16	0	0	16	0	conifer plantation and improved agricultural grassland; flying at 80m height	MOC

Table 7 - 4 - 29 Snipe breeding walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SN001	14/04/2022	16:01	Snipe	1	improved agricultural grassland; flushed from forestry edge (suitable nesting habitat; possible breeder)	MOC

Table 7 - 4 - 30 Snipe waterbird distribution and abundance survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SN001	92965 44855	03/01/2022	10:44	Snipe	15	eutrophic lakes; roosting, 15 snipe roosting in reedbeds at edge of pond, took flight when flushed.	TK
SN002	lake near the Graffin crossroads	22/12/2022	13:00	Snipe	1	reed and large sedge swamps, mesotrophic lakes and improved agricultural grassland; flying	TS
SN003	bridge 2km East North East from Dundrum (Cumask)	20/01/2023	11:40	Snipe	1	improved agricultural grassland, eroding/upland rivers and immature woodland; flushed	TS
SN004	lake near the Graffin crossroads	20/01/2023	13:30	Snipe	3	improved agricultural grassland; flying, flushed	TS
SN005	93016 44765	01/04/2023	10:48	Snipe	4	improved agricultural grassland and eutrophic lakes; flushed from edge of pond, 4 snipe flushed from edge of pond	TK

Table 7 - 4 - 31 Snipe incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SN001	Hen Harrier Roost Survey; near HHVP5	08/10/2022	19:28	Snipe	1	upland blanket bog; calling	TS
SN002	Hen Harrier Roost Survey; 50m North of HHVP1	05/11/2022	17:35	Snipe	1	improved agricultural grassland; flying, calling	TS
SN003	Hen Harrier Roost Survey; near HHVP6	25/11/2022	17:10	Snipe	1	wet grassland; flying, calling	TS

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SN004	Hen Harrier Roost Survey; near hhvp5	02/12/2022	17:05	Snipe	1	upland blanket bog; calling	TS
SN005	Hen Harrier Roost Survey; near HHVP2	09/02/2023	18:12	Snipe	1	conifer plantation; flying	TS
SN006	Hen Harrier Roost Survey; near HHVP6	12/02/2023	18:07	Snipe	1	wet grassland and conifer plantation; flying	TS

1.13

Swift

Table 7 - 4 - 32 Swift breeding walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SI001	20/07/2021	15:11	Swift	3	conifer plantation and scrub; flight, foraging, foraging in flight (flyover; non-breeding)	TR
SI002	23/05/2022	11:30	Swift	1	Was noted as a non target (flyover; non-breeding)	MOC

Table 7 - 4 - 33 Swift incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SI001	Breeding Raptor Survey; BR8	25/07/2022	13:41	Swift	1	wet grassland and improved agricultural grassland; hunting	CG

1.14

Woodcock

Table 7 - 4 - 34 Woodcock vantage point survey data

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
WK001	VP5	02/01/2023	12:04	Woodcock	1	13	0	13	0	0	conifer plantation; flying over forestry at 20m height	MOC

Table 7 - 4 - 35 Woodcock breeding woodcock survey data

Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK008	T2	24/05/2021	21:25	Woodcock	1	conifer plantation, calling	JG
WK020	T1	02/06/2021	21:22	Woodcock	1	conifer plantation, calling, heard not seen	JG
WK039	T3	29/06/2021	22:43	Woodcock	1	conifer plantation, calling, heard not seen	JG
WK042	T4	04/06/2022	21:25	Woodcock	1	conifer plantation, flying	TS



Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK043	T4	04/06/2022	22:03	Woodcock	1	conifer plantation, flying	TS
WK044	T4	04/06/2022	22:20	Woodcock	1	conifer plantation, flying	TS
WK045	T4	04/06/2022	22:30	Woodcock	1	conifer plantation, flying	TS
WK046	T3	05/06/2022	21:29	Woodcock	1	conifer plantation, flying	TS
WK047	T3	05/06/2022	21:34	Woodcock	1	conifer plantation, flying	TS
WK048	T3	05/06/2022	21:36	Woodcock	1	conifer plantation, flying	TS
WK049	T3	05/06/2022	21:48	Woodcock	1	conifer plantation, flying	TS
WK050	T3	05/06/2022	22:20	Woodcock	1	conifer plantation, flying	TS
WK051	T3	05/06/2022	22:40	Woodcock	1	conifer plantation, flying	TS
WK052	T1	08/06/2022	22:00	Woodcock	1	conifer plantation, flying	TS
WK053	T1	08/06/2022	22:04	Woodcock	1	conifer plantation, flying	TS
WK054	T1	08/06/2022	22:08	Woodcock	1	conifer plantation and recently-felled woodland, flying	TS
WK055	T1	08/06/2022	22:12	Woodcock	1	conifer plantation, flying	TS
WK056	T1	08/06/2022	22:14	Woodcock	1	conifer plantation and recently-felled woodland, flying	TS
WK057	T1	08/06/2022	22:35	Woodcock	1	conifer plantation, flying	TS
WK058	T1	08/06/2022	22:40	Woodcock	1	recently-felled woodland, flying	TS
WK059	T1	08/06/2022	22:42	Woodcock	1	conifer plantation, flying	TS
WK060	T2	09/06/2022	21:37	Woodcock	1	conifer plantation, flying	TS
WK061	T2	09/06/2022	21:44	Woodcock	1	conifer plantation, flying	TS
WK062	T2	09/06/2022	21:54	Woodcock	1	conifer plantation, flying	TS
WK063	T2	09/06/2022	21:55	Woodcock	1	conifer plantation, flying	TS
WK064	T2	09/06/2022	22:01	Woodcock	1	conifer plantation, flying	TS
WK065	T2	09/06/2022	22:04	Woodcock	1	conifer plantation, flying	TS
WK066	T2	09/06/2022	22:13	Woodcock	2	conifer plantation, flying	TS
WK067	T2	09/06/2022	22:27	Woodcock	1	conifer plantation, flying	TS
WK068	T2	09/06/2022	22:45	Woodcock	1	buildings and artificial surfaces, flushed, sitting on the road, flushed	TS
WK069	T1	15/06/2022	21:57	Woodcock	1	conifer plantation, flying	TS
WK070	T1	15/06/2022	22:03	Woodcock	1	conifer plantation, flying	TS
WK071	T1	15/06/2022	22:08	Woodcock	1	conifer plantation, flying	TS



Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK072	T1	15/06/2022	22:10	Woodcock	1	conifer plantation, flying	TS
WK073	T1	15/06/2022	22:15	Woodcock	2	conifer plantation, flying	TS
WK074	T1	15/06/2022	22:16	Woodcock	1	conifer plantation, flying	TS
WK075	T1	15/06/2022	22:25	Woodcock	2	conifer plantation, flying	TS
WK076	T1	15/06/2022	22:29	Woodcock	1	conifer plantation, flying	TS
WK077	T1	15/06/2022	22:33	Woodcock	1	conifer plantation and recently-felled woodland, flying	TS
WK078	T1	15/06/2022	22:35	Woodcock	1	conifer plantation and recently-felled woodland, flying	TS
WK079	T1	15/06/2022	22:52	Woodcock	1	conifer plantation and recently-felled woodland, flying	TS
WK080	T1	15/06/2022	22:55	Woodcock	1	conifer plantation and recently-felled woodland, flying	TS
WK081	T2	16/06/2022	21:41	Woodcock	1	conifer plantation, flying	TS
WK082	T2	16/06/2022	21:46	Woodcock	1	conifer plantation, flying	TS
WK083	T2	16/06/2022	21:50	Woodcock	1	conifer plantation, flying	TS
WK084	T2	16/06/2022	21:57	Woodcock	1	conifer plantation, flying	TS
WK085	T2	16/06/2022	22:01	Woodcock	1	conifer plantation, flying, bird not seen	TS
WK086	T2	16/06/2022	22:11	Woodcock	1	conifer plantation, flying	TS
WK087	T2	16/06/2022	22:15	Woodcock	1	conifer plantation, flying	TS
WK088	T2	16/06/2022	22:32	Woodcock	1	conifer plantation, flying	TS
WK089	T2	16/06/2022	22:40	Woodcock	1	conifer plantation, flying	TS
WK090	T2	16/06/2022	23:05	Woodcock	1	conifer plantation, flying	TS
WK091	T2	16/06/2022	23:10	Woodcock	1	conifer plantation, flying	TS
WK092	T4	18/06/2022	22:49	Woodcock	1	conifer plantation, flying	TS
WK093	T4	18/06/2022	22:55	Woodcock	2	conifer plantation, flying	TS
WK094	T3	20/06/2022	22:22	Woodcock	1	conifer plantation, flying	TS
WK095	T3	20/06/2022	22:33	Woodcock	1	conifer plantation, flying	TS
WK096	T3	20/06/2022	22:40	Woodcock	1	conifer plantation, recently-felled woodland and wet grassland, flying	TS
WK097	T3	20/06/2022	22:46	Woodcock	1	conifer plantation and recently-felled woodland, flying	TS
WK098	T3	20/06/2022	22:50	Woodcock	1	conifer plantation, flying	TS
WK099	T2	26/06/2022	22:10	Woodcock	1	conifer plantation and buildings and artificial surfaces, flying	TS
WK100	T2	26/06/2022	22:13	Woodcock	1	conifer plantation, flying	TS



Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK101	T2	26/06/2022	22:16	Woodcock	1	buildings and artificial surfaces, flying	TS
WK102	T2	26/06/2022	22:19	Woodcock	1	conifer plantation, flying	TS
WK103	T2	26/06/2022	22:28	Woodcock	1	conifer plantation, flying	TS
WK104	T2	26/06/2022	22:31	Woodcock	1	conifer plantation, flying	TS
WK105	T2	26/06/2022	22:33	Woodcock	1	conifer plantation, flying	TS
WK106	T2	26/06/2022	22:36	Woodcock	1	conifer plantation, flying	TS
WK107	T2	26/06/2022	22:43	Woodcock	1	conifer plantation and buildings and artificial surfaces, flying	TS
WK108	T2	26/06/2022	22:46	Woodcock	1	conifer plantation, flying	TS
WK109	T2	26/06/2022	22:56	Woodcock	1	buildings and artificial surfaces, flying	TS
WK110	T2	26/06/2022	22:59	Woodcock	1	conifer plantation, flying	TS
WK111	T2	26/06/2022	23:00	Woodcock	1	conifer plantation, flying	TS
WK112	T2	26/06/2022	23:03	Woodcock	1	conifer plantation, flying	TS
WK113	T4	28/06/2022	21:51	Woodcock	1	conifer plantation, flying, did not see the bird	TS
WK114	T4	28/06/2022	22:51	Woodcock	1	conifer plantation, flying	TS
WK115	T3	29/06/2022	21:58	Woodcock	1	conifer plantation, flying, did not see the bird	TS
WK116	T3	29/06/2022	22:00	Woodcock	1	conifer plantation, flying	TS
WK117	T3	29/06/2022	22:02	Woodcock	1	conifer plantation, flying	TS
WK118	T3	29/06/2022	22:04	Woodcock	1	conifer plantation, flying	TS
WK119	T3	29/06/2022	22:06	Woodcock	1	conifer plantation, flying	TS
WK120	T3	29/06/2022	22:09	Woodcock	1	conifer plantation, flying	TS
WK121	T3	29/06/2022	22:30	Woodcock	1	conifer plantation, flying, did not see the bird	TS
WK122	T3	29/06/2022	22:44	Woodcock	1	conifer plantation, flying	TS
WK123	T1	30/06/2022	22:15	Woodcock	1	conifer plantation and recently-felled woodland, flying	TS
WK124	T1	30/06/2022	22:17	Woodcock	1	conifer plantation, flying	TS
WK125	T1	30/06/2022	22:19	Woodcock	1	conifer plantation, flying	TS
WK126	T1	30/06/2022	22:22	Woodcock	1	conifer plantation, flying	TS
WK127	T1	30/06/2022	22:23	Woodcock	1	conifer plantation, flying	TS
WK128	T1	30/06/2022	22:32	Woodcock	1	conifer plantation, flying	TS
WK129	T1	30/06/2022	22:33	Woodcock	1	conifer plantation, flying	TS



Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK130	T1	30/06/2022	22:37	Woodcock	1	conifer plantation, flying	TS
WK131	T1	30/06/2022	22:39	Woodcock	1	conifer plantation, flying	TS
WK132	T1	30/06/2022	22:41	Woodcock	1	conifer plantation, flying	TS
WK133	T1	30/06/2022	22:56	Woodcock	1	conifer plantation and recently-felled woodland, flying	TS
WK134	T1	30/06/2022	22:58	Woodcock	1	conifer plantation, flying	TS
WK135	T1	30/06/2022	23:00	Woodcock	1	conifer plantation, buildings and artificial surfaces and recently-felled woodland, flying	TS

Table 7 - 4 - 36 Woodcock incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
WK00 2	Hen Harrier Roost Survey; near HHVP3	18/11/202 2	17:07	Woodcock	1	conifer plantation; flying	TS
WK00 3	Hen Harrier Roost Survey; near HHVP3	18/11/202 2	17:12	Woodcock	2	conifer plantation; flying	TS
WK00 4	Hen Harrier Roost Survey; near hhvp3	04/12/202 2	16:55	Woodcock	2	conifer plantation; flying	TS
WK00 5	Hen Harrier Roost Survey; near hhvp3	04/12/202 2	17:03	Woodcock	1	conifer plantation; flying	TS
WK00 6	Hen Harrier Roost Survey; near hhvp3	18/01/202 3	17:30	Woodcock	3	conifer plantation and buildings and artificial surfaces; flying	TS
WK00 7	Hen Harrier Roost Survey; near hhvp3	18/01/202 3	17:33	Woodcock	2	conifer plantation and buildings and artificial surfaces; flying	TS
WK00 8	Hen Harrier Roost Survey; near hhvp4	20/01/202 3	17:35	Woodcock	1	conifer plantation; flying	TS
WK00 9	Hen Harrier Roost Survey; near HHVP2	09/02/202 3	18:10	Woodcock	1	conifer plantation; flying	TS
WK01 0	Hen Harrier Roost Survey; near HHVP6	12/02/202 3	18:08	Woodcock	1	conifer plantation; flying	TS
WK01 1	Hen Harrier Roost Survey; near HHVP3	01/03/202 3	18:45	Woodcock	1	conifer plantation; flying	TS
WK01 2	Hen Harrier Roost Survey; near HHVP3	01/03/202 3	18:50	Woodcock	1	conifer plantation; flying	TS
WK01 3	Hen Harrier Roost Survey; near HHVP2	08/03/202 3	18:43	Woodcock	1	conifer plantation; flying	TS
WK01 4	Hen Harrier Roost Survey; near HHVP2	08/03/202 3	18:54	Woodcock	1	conifer plantation; flying	TS
WK01 5	Hen Harrier Roost Survey; near HHVP2	08/03/202 3	19:00	Woodcock	1	conifer plantation; flying	TS



Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
WK01 6	Hen Harrier Roost Survey; near HHVP6	14/03/2023	19:10	Woodcock	1	conifer plantation; flying calling, up the track	TS
WK01 7	Hen Harrier Roost Survey; near HHVP5	16/03/2023	19:15	Woodcock	1	conifer plantation, buildings and artificial surfaces and upland blanket bog; flying	TS

1.15

Buzzard

Table 7 - 4 - 37 Buzzard vantage point survey data

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
BZ001	VP1	30/04/2021	18:40	Buzzard	1	210	0	60	150	0	immature woodland, scrub and improved agricultural grassland; hunting, buzzard hunting	TK
BZ002	VP1	01/05/2021	11:58	Buzzard	2	120	0	40	80	0	mixed broadleaved/conifer woodland, conifer plantation and improved agricultural grassland; hunting, pair of buzzards hunting, one flew out of sight.	TK
BZ003	VP1	01/05/2021	12:00	Buzzard	1	1280	0	80	800	400	mixed broadleaved/conifer woodland, conifer plantation and improved agricultural grassland; soaring, hunting, buzzard soaring, hunting	TK
BZ004	VP1	01/05/2021	12:50	Buzzard	1	30	0	30	0	0	mixed broadleaved/conifer woodland, conifer plantation and immature woodland; flying over., buzzard flew from perch into woodland.	TK
BZ006	VP2	07/05/2021	12:09	Buzzard	1	25	0	0	25	0	conifer plantation; gliding, hovering briefly, out of view behind trees	TR
BZ009	VP2	07/05/2021	12:50	Buzzard	1	60	0	0	60	0	conifer plantation; flight, out of view behind trees, going lower	TR
BZ012	VP2	07/05/2021	13:14	Buzzard	1	260	40	10	210	0	conifer plantation; hunting flight, hovering and gliding	TR
BZ013	VP2	07/05/2021	13:19	Buzzard	1	15	0	15	0	0	conifer plantation; gliding low above canopy, went low behind wd4 in area of 2nd rotation. 2 birds present	TR
BZ014	VP2	07/05/2021	13:21	Buzzard	1	90	0	50	40	0	conifer plantation; hovering and gliding	TR
BZ016	VP4	07/05/2021	14:39	Buzzard	1	45	0	45	0	0	hedgerows and improved agricultural grassland; flight, circling, mobbed by hooded crow	TR
BZ018	VP4	07/05/2021	15:52	Buzzard	1	480	0	0	480	0	wet grassland; displaying, then slow descending glide	TR
BZ019	VP4	07/05/2021	16:32	Buzzard	1	80	40	40	0	0	wet grassland and conifer plantation; hunting	TR
BZ020	VP1	29/05/2021	12:11	Buzzard	1	515	0	0	515	0	improved agricultural grassland and conifer plantation; soaring, buzzard soaring	TK



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
BZ021	VP4	31/05/2021	07:44	Buzzard	1	60	0	0	60	0	improved agricultural grassland and conifer plantation; soaring, soaring up then away over forestry	AM
BZ026	VP5	04/06/2021	15:36	Buzzard	2	60	0	15	45	0	conifer plantation; hovering/hunting followed by stoop, probable breeding	TR
BZ027	VP5	04/06/2021	15:55	Buzzard	1	350	0	120	230	0	conifer plantation; hovering/gliding	TR
BZ028	VP5	04/06/2021	16:14	Buzzard	1	30	0	30	0	0	conifer plantation; descending into forested area	TR
BZ029	VP1	11/06/2021	12:10	Buzzard	1	215	0	35	180	0	conifer plantation; soaring	TK
BZ030	VP1	11/06/2021	12:34	Buzzard	1	90	0	20	70	0	conifer plantation; hunting	TK
BZ031	VP2	14/06/2021	11:34	Buzzard	2	75	30	45	0	0	conifer plantation; hunting, buzzards hunting over young forestry	TK
BZ032	VP2	14/06/2021	12:06	Buzzard	2	285	0	235	50	0	conifer plantation; hunting, buzzards hunting over young forestry	TK
BZ033	VP2	14/06/2021	12:10	Buzzard	1	50	0	50	0	0	conifer plantation; hunting, buzzards hunting over young forestry	TK
BZ034	VP4	17/07/2021	14:55	Buzzard	1	215	10	35	170	0	improved agricultural grassland, scrub and conifer plantation; soaring, buzzard soaring, landed on tree.	TK
BZ035	VP4	17/07/2021	14:59	Buzzard	1	-	-	-	-	-	improved agricultural grassland and hedgerows; perched, buzzard perched on tree after soaring flight.	TK
BZ036	VP4	17/07/2021	15:03	Buzzard	1	10	10	0	0	0	improved agricultural grassland and scrub; travelling, buzzard took flight from tree	TK
BZ037	VP4	17/07/2021	15:06	Buzzard	1	15	15	0	0	0	improved agricultural grassland and scrub; travelling, buzzard in flight. Landed on tree.	TK
BZ038	VP5	17/07/2021	15:07	Buzzard	1	-	-	-	-	-	improved agricultural grassland and hedgerows; perched, preening, buzzard flew onto perch on tree, stayed for approx. 15 mins.	TK
BZ039	VP4	17/07/2021	15:21	Buzzard	1	25	5	20	0	0	improved agricultural grassland and scrub; hunting, buzzard took flight from tree.	TK
BZ040	VP3	25/07/2021	12:18	Buzzard	1	618	0	0	400	218	improved agricultural grassland and hedgerows; soaring, buzzard soaring	TK
BZ041	VP5	13/08/2021	17:10	Buzzard	1	60	0	0	60	0	conifer plantation; travelling flight	JG
BZ042	VP4	19/08/2021	15:30	Buzzard	1	95	0	0	30	65	conifer plantation; travelling flight	JG
BZ043	VP2	28/08/2021	12:26	Buzzard	1	40	0	40	0	0	conifer plantation; flying over, buzzard flying over.	TK
BZ044	VP1	30/08/2021	12:13	Buzzard	1	90	0	90	0	0	conifer plantation; hunting, buzzard hunting	TK
BZ045	VP1	30/08/2021	12:52	Buzzard	1	380	0	30	350	0	conifer plantation; soaring, soaring	TK



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
BZ046	VP1	15/10/2021	not recorded	Buzzard	1	30	0	30	0	0	immature woodland and conifer plantation; flying over, buzzard flying over	TK
BZ047	VP2	28/10/2021	not recorded	Buzzard	1	35	0	35	0	0	immature woodland; flying over, buzzard flying over	TK
BZ048	VP5	03/11/2021	not recorded	Buzzard	1	45	0	45	0	0	conifer plantation; hunting, buzzard flying over, hunting	TK
BZ049	VP3	05/11/2021	not recorded	Buzzard	1	35	0	35	0	0	conifer plantation and improved agricultural grassland; flying over, buzzard flying over.	TK
BZ050	VP2	22/11/2021	not recorded	Buzzard	1	45	0	45	0	0	conifer plantation and improved agricultural grassland; flying over	TK
BZ051	VP4	30/11/2021	not recorded	Buzzard	1	95	0	0	95	0	improved agricultural grassland; flying over, buzzard flying over	TK
BZ052	VP2	03/12/2021	not recorded	Buzzard	1	85	70	15	0	0	conifer plantation; hunting, buzzard hunting	TK
BZ053	VP1	17/12/2021	not recorded	Buzzard	1	220	0	10	210	0	conifer plantation; soaring, buzzard soaring, descended into forestry	TK
BZ054	VP4	28/12/2021	not recorded	Buzzard	1	30	10	20	0	0	improved agricultural grassland and hedgerows; flying over, buzzard flying over.	TK
BZ055	VP4	15/01/2022	not recorded	Buzzard	1	30	0	10	20	0	improved agricultural grassland and treelines; flying over, buzzard in flight, being mobbed by hooded crows.	TK
BZ056	VP1	24/01/2022	not recorded	Buzzard	1	32	0	7	25	0	conifer plantation; flying over, buzzard flying over.	TK
BZ057	VP3	29/01/2022	not recorded	Buzzard	1	30	0	10	20	0	improved agricultural grassland and conifer plantation; flying over, buzzard seen briefly in flight	TK
BZ058	VP3	31/01/2022	not recorded	Buzzard	1	260	0	0	260	0	conifer plantation; circling, buzzard circling high over forestry	TK
BZ059	VP5	02/02/2022	not recorded	Buzzard	1	208	0	30	178	0	improved agricultural grassland and conifer plantation; circling, hunting	TK
BZ060	VP5	02/02/2022	not recorded	Buzzard	1	30	0	20	10	0	conifer plantation; in flight.	TK
BZ061	VP2	03/02/2022	not recorded	Buzzard	1	213	0	35	178	0	conifer plantation; hunting, soaring	TK
BZ062	VP2	03/02/2022	not recorded	Buzzard	2	1335	0	75	1260	0	conifer plantation; hunting, soaring, second buzzard joined first buzzard, in air together soaring, hunting in same area.	TK
BZ063	VP2	03/02/2022	not recorded	Buzzard	1	95	0	35	60	0	conifer plantation; hunting	TK
BZ064	VP4	19/02/2022	not recorded	Buzzard	1	30	0	0	30	0	improved agricultural grassland; flying over	TK



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
BZ065	VP4	19/02/2022	not recorded	Buzzard	1	35	0	10	25	0	improved agricultural grassland; flying over	TK
BZ066	VP1	28/02/2022	not recorded	Buzzard	2	875	0	90	785	0	conifer plantation; soaring, hunting	TK
BZ067	VP1	01/03/2022	not recorded	Buzzard	1	35	0	35	0	0	improved agricultural grassland; flying over.	TK
BZ068	VP2	07/03/2022	13:29	Buzzard	1	165	0	30	135	0	improved agricultural grassland and conifer plantation; hunting, buzzard hunting	TK
BZ069	VP2	07/03/2022	14:17	Buzzard	1	205	0	10	140	55	conifer plantation; hunting, circling, buzzard hunting	TK
BZ070	VP1	14/03/2022	16:08	Buzzard	1	370	0	0	180	190	conifer plantation; soaring, buzzard soaring	TK
BZ071	VP3	15/03/2022	15:15	Buzzard	1	620	0	0	470	150	conifer plantation; soaring, buzzard soaring	TK
BZ072	VP4	20/03/2022	13:42	Buzzard	1	215	0	0	215	0	conifer plantation; soaring	TK
BZ073	VP4	20/03/2022	13:56	Buzzard	2	645	0	0	500	145	conifer plantation; soaring	TK
BZ074	VP2	13/04/2022	18:25	Buzzard	5	190	0	110	80	0	conifer plantation and improved agricultural grassland; soaring, circling, calling, over forestry and fields	MOC
BZ075	VP2	13/04/2022	18:45	Buzzard	1	53	0	53	0	0	conifer plantation; circling, over woodland	MOC
BZ076	VP2	13/04/2022	19:15	Buzzard	2	195	0	120	75	0	conifer plantation; circling, over woodland at 20-60m height	MOC
BZ077	VP3	14/04/2022	18:10	Buzzard	1	42	0	0	42	0	improved agricultural grassland and conifer plantation; flying, at 35-70m height	MOC
BZ078	VP5	28/04/2022	12:11	Buzzard	1	195	0	0	45	150	improved agricultural grassland, recently-felled woodland and conifer plantation; flight, travelling, evading being mobbed., buzzard being mobbed by raven, buzzard travelled south east and raven flew away west.	SOB
BZ079	VP2	22/05/2022	18:35	Buzzard	3	350	0	160	190	0	conifer plantation; soaring, hunting, hovering calling at 15-120m height, adults	MOC
BZ080	VP2	22/05/2022	18:56	Buzzard	1	85	0	0	85	0	conifer plantation and improved agricultural grassland; soaring at 80-150m height, circling, occasionally calling, adult	MOC
BZ081	VP2	22/05/2022	20:22	Buzzard	2	230	0	50	180	0	conifer plantation and improved agricultural grassland; circling together at 20-80m height	MOC
BZ082	VP3	23/05/2022	21:07	Buzzard	1	38	0	38	0	0		MOC
BZ083	VP4	24/05/2022	18:51	Buzzard	1	55	0	15	40	0	conifer plantation and improved agricultural grassland; flying over forestry at 20-40m height, adult	MOC
BZ084	VP4	24/05/2022	19:10	Buzzard	1	18	0	18	0	0	improved agricultural grassland and conifer plantation; flying at 20-25m height	MOC



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
BZ085	VP4	24/05/2022	19:41	Buzzard	1	175	0	90	85	0	improved agricultural grassland; circling for 3 mins, at 40-120m height	MOC
BZ086	VP1	13/07/2022	16:48	Buzzard	1	-	-	-	-	-	conifer plantation; calling	TS
BZ087	VP2	14/07/2022	11:40	Buzzard	1	300	0	0	300	0	wet grassland; flying, circling	TS
BZ088	VP2	14/07/2022	17:14	Buzzard	1	140	0	0	140	0	wet grassland and conifer plantation; flying, circling	TS
BZ089	VP3	19/07/2022	15:26	Buzzard	1	20	20	0	0	0	recently-felled woodland; flying	TS
BZ090	VP3	19/07/2022	16:35	Buzzard	1	180	0	0	180	0	conifer plantation and recently-felled woodland; flying, circling	TS
BZ091	VP4	20/07/2022	17:43	Buzzard	1	90	0	0	90	0	conifer plantation; flying	TS
BZ092	VP5	21/07/2022	15:18	Buzzard	1	80	0	0	80	0	recently-felled woodland and conifer plantation; flying, circling	TS
BZ093	VP1	25/07/2022	15:03	Buzzard	1	80	0	0	80	0	oak-ash-hazel woodland and conifer plantation; flying	TS
BZ094	VP1	25/07/2022	16:10	Buzzard	1	20	0	0	20	0	conifer plantation; flying	TS
BZ095	VP1	25/07/2022	17:25	Buzzard	1	450	0	30	420	0	recently-felled woodland and conifer plantation; flying mobbed	TS
BZ096	VP3	28/07/2022	14:22	Buzzard	1	550	0	150	400	0	oak-ash-hazel woodland, conifer plantation and wet grassland; flying, circling	TS
BZ097	VP3	28/07/2022	17:05	Buzzard	1	-	-	-	-	-	conifer plantation; calling	TS
BZ098	VP4	29/07/2022	13:28	Buzzard	1	120	10	10	100	0	wet grassland and improved agricultural grassland; flying mobbed	TS
BZ099	VP5	31/07/2022	11:35	Buzzard	1	260	0	0	260	0	conifer plantation, recently-felled woodland and wet grassland; flying, circling	TS
BZ100	VP5	31/07/2022	11:37	Buzzard	1	120	0	0	120	0	recently-felled woodland and wet grassland; flying, circling, different buzzard	TS
BZ101	VP5	31/07/2022	15:22	Buzzard	1	20	20	0	0	0	recently-felled woodland; flying	TS
BZ102	VP5	31/07/2022	15:30	Buzzard	2	360	0	0	360	0	conifer plantation, scrub and wet grassland; flying, circling	TS
BZ103	VP5	31/07/2022	17:01	Buzzard	1	140	0	20	120	0	conifer plantation, scrub and improved agricultural grassland; flying, circling	TS
BZ104	VP5	31/07/2022	17:20	Buzzard	1	20	0	20	0	0	improved agricultural grassland and treelines; flying	TS
BZ105	VP1	02/08/2022	14:49	Buzzard	1	40	0	10	30	0	wet grassland; flying	TS
BZ106	VP1	02/08/2022	15:39	Buzzard	1	210	0	0	0	210	conifer plantation, wet grassland and oak-ash-hazel woodland; flying	TS
BZ107	VP2	03/08/2022	13:12	Buzzard	1	250	20	50	180	0	conifer plantation, wet grassland and recently-felled woodland; flying	TS



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
BZ108	VP2	03/08/2022	13:18	Buzzard	1	500	0	0	400	100	conifer plantation, recently-felled woodland and wet grassland; flying, hunting	TS
BZ109	VP2	03/08/2022	14:52	Buzzard	1	300	0	0	300	0	recently-felled woodland; hunting	TS
BZ110	VP2	03/08/2022	16:18	Buzzard	1	220	0	10	210	0	recently-felled woodland; hunting	TS
BZ111	VP3	04/08/2022	12:50	Buzzard	1	80	0	10	70	0	conifer plantation and recently-felled woodland; circling, flying	TS
BZ112	VP3	04/08/2022	13:12	Buzzard	1	340	0	40	300	0	wet grassland, conifer plantation and recently-felled woodland; circling, flying, hunting	TS
BZ113	VP3	04/08/2022	15:20	Buzzard	1	200	0	0	200	0	oak-ash-hazel woodland and recently-felled woodland; flying, hunting	TS
BZ114	VP3	04/08/2022	16:43	Buzzard	3	160	0	20	140	0	recently-felled woodland and conifer plantation; circling, flying	TS
BZ115	VP4	11/08/2022	08:25	Buzzard	2	57	0	0	57	0	improved agricultural grassland; x2 buzzard flying at 30-60m height, adults (heavy wing moult)	MOC
BZ116	VP4	11/08/2022	09:20	Buzzard	1	36	0	36	0	0	conifer plantation; buzzard flying north west at 20-25m height, adult	MOC
BZ117	VP4	11/08/2022	11:33	Buzzard	1	100	0	80	20	0	improved agricultural grassland and conifer plantation; hunting at 20-30m height	MOC
BZ118	VP5	13/08/2022	10:05	Buzzard	1	65	0	0	65	0	conifer plantation; soaring at 100-150m height	MOC
BZ119	VP5	13/08/2022	10:46	Buzzard	2	48	0	12	36	0	conifer plantation; flying together, calling frequently, at 20-4-m height	MOC
BZ120	VP5	13/08/2022	12:12	Buzzard	1	130	0	0	130	0	improved agricultural grassland; circling, soaring, at 50-80m height	MOC
BZ121	VP5	13/08/2022	14:00	Buzzard	1	350	0	0	350	0	conifer plantation and improved agricultural grassland; circling, soaring, calling, at 100m, rising to 200m height, adult	MOC
BZ122	VP4	23/08/2022	07:58	Buzzard	1	175	0	0	175	0	improved agricultural grassland; flying steadily north west at 50-80m height, adult (heavy moult)	MOC
BZ123	VP5	23/08/2022	10:55	Buzzard	1	55	0	55	0	0	conifer plantation and improved agricultural grassland; flying north east at 20-25m height	MOC
BZ124	VP5	23/08/2022	11:07	Buzzard	1	240	0	30	210	0	conifer plantation; flying over forestry, rising from 20m up to 150m height, juvenile	MOC
BZ125	VP5	23/08/2022	12:12	Buzzard	1	380	0	0	380	0	conifer plantation and improved agricultural grassland; circling, hunting from 60m up to 120m height, juvenile	MOC
BZ126	VP5	13/09/2022	16:31	Buzzard	1	150	10	40	100	0	recently-felled woodland and conifer plantation; hunting, hovering, soaring, flight, buzzard soaring over young conifer plantation, hovering, then flew out of view.	SOB



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
BZ127	VP3	20/09/2022	14:35	Buzzard	2	185	0	30	155	0	conifer plantation and recently-felled woodland; soaring, flight, two buzzards soaring over forestry, descended out of view	SOB
BZ128	VP3	20/09/2022	15:18	Buzzard	1	35	35	0	0	0	improved agricultural grassland and hedgerows; flight, buzzard flew to perch in hedge	SOB
BZ129	VP3	20/09/2022	15:22	Buzzard	1	-	-	-	-	-	linear woodland/scrub and improved agricultural grassland; perched, calling., buzzard perched on spruce tree in hedgerow calling, for over 15 mins.	SOB
BZ130	VP3	20/09/2022	15:29	Buzzard	1	25	25	0	0	0	improved agricultural grassland, linear woodland/scrub and conifer plantation; flight, buzzard flew from perch out of sight	SOB
BZ131	VP2	22/09/2022	16:58	Buzzard	1	5	5	0	0	0	improved agricultural grassland and conifer plantation; flight, perched, hunting., buzzard flew to perch on telephone pole, disturbing a flock of rooks	SOB
BZ132	VP2	22/09/2022	17:00	Buzzard	1	-	-	-	-	-	conifer plantation and improved agricultural grassland; hunting, perched, scanning, diving, buzzard perched on telephone pole looking down for prey, jumped down into forest edge to catch something	SOB
BZ133	VP2	25/09/2022	16:10	Buzzard	1	280	20	60	200	0	wet grassland and conifer plantation; flying, mobbed	TS
BZ134	VP2	25/09/2022	16:16	Buzzard	1	60	60	0	0	0	improved agricultural grassland; flying, perched	TS
BZ135	VP4	28/09/2022	13:28	Buzzard	1	45	45	0	0	0	wet grassland and hedgerows; flying	TS
BZ136	VP1	24/10/2022	11:47	Buzzard	1	135	0	135	0	0	improved agricultural grassland and conifer plantation; circling over fields and forestry at 15-25m height	MOC
BZ137	VP3	26/10/2022	12:36	Buzzard	2	135	0	0	135	0	improved agricultural grassland and conifer plantation; 2 birds soaring distantly at 150-200m height	MOC
BZ138	VP4	30/10/2022	13:29	Buzzard	1	55	0	0	55	0	improved agricultural grassland; flying at 50-80m height	MOC
BZ139	VP4	30/10/2022	13:50	Buzzard	1	140	0	0	140	0	conifer plantation; soaring at 80-100m height, adult in heavy moult	MOC
BZ140	VP3	12/11/2022	14:00	Buzzard	1	140	0	50	90	0	conifer plantation; circling over forestry at 20-80m height	MOC
BZ141	VP4	13/11/2022	16:02	Buzzard	2	93	0	0	93	0	conifer plantation; x2 buzzards circling, calling, at 70-90m height	MOC
BZ142	VP4	13/11/2022	16:20	Buzzard	1	111	0	0	111	0	conifer plantation; circling at 80-120m height	MOC
BZ143	VP5	14/11/2022	08:41	Buzzard	1	32	0	32	0	0	conifer plantation; flying over forestry at 20-25m height	MOC



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
BZ144	VP5	14/11/2022	09:25	Buzzard	1	115	0	0	115	0	conifer plantation and improved agricultural grassland; circling over forestry at 60-120m height	MOC
BZ145	VP5	14/11/2022	10:41	Buzzard	1	45	0	45	0	0	improved agricultural grassland; flying at 20-25m height, adult in heavy wing moult	MOC
BZ146	VP5	14/11/2022	13:41	Buzzard	1	33	0	0	33	0	conifer plantation; flying over forestry at 40-80m height	MOC
BZ147	VP3	30/12/2022	11:03	Buzzard	1	105	0	0	105	0	conifer plantation; soaring high at 80-120m height	MOC
BZ148	VP3	30/12/2022	13:07	Buzzard	1	56	0	0	56	0	conifer plantation and improved agricultural grassland; climbing from 20m up to 50m height, then flying fast north east at 30m height, adult (heavy wing moult)	MOC
BZ149	VP4	01/01/2023	13:37	Buzzard	1	85	0	85	0	0	improved agricultural grassland; flying nw at 20m height	MOC
BZ150	VP5	02/01/2023	09:36	Buzzard	1	73	0	0	73	0	conifer plantation; flying over forestry at 30-40m height, adult	MOC
BZ151	VP5	02/01/2023	10:14	Buzzard	1	23	0	12	11	0	conifer plantation; flying over forestry at 20-30m height, adult	MOC
BZ152	VP5	02/01/2023	11:11	Buzzard	1	64	7	35	22	0	conifer plantation; flying over forestry at 10-30m height, adult	MOC
BZ153	VP5	02/01/2023	13:41	Buzzard	1	140	0	0	140	0	conifer plantation; flying , circling over forestry at 40-100m height, adult	MOC
BZ154	VP5	02/01/2023	15:50	Buzzard	1	18	0	0	18	0	conifer plantation; seen briefly at 60-80m over forestry, all buzzard sightings possibly same individual (wing moult)	MOC
BZ155	VP1	25/01/2023	13:53	Buzzard	1	85	0	0	85	0	conifer plantation; circling at 40-80m height	MOC
BZ156	VP2	20/02/2023	14:19	Buzzard	3	165	0	0	110	55	conifer plantation; 3 buzzards soaring from 40m up to 250m height, adults	MOC
BZ158	VP2	20/02/2023	15:06	Buzzard	1	145	0	0	145	0	improved agricultural grassland and conifer plantation; hovering, hunting at 40-120m height, adult	MOC
BZ160	VP3	21/02/2023	12:40	Buzzard	1	130	0	0	130	0	conifer plantation and improved agricultural grassland; flying north at 40-100m height	MOC
BZ161	VP4	23/02/2023	10:26	Buzzard	1	42	0	0	42	0	improved agricultural grassland and conifer plantation; flying at 25-40m height, adult	MOC
BZ163	VP5	24/02/2023	10:21	Buzzard	1	14	0	14	0	0	conifer plantation and improved agricultural grassland; flying at 15-20m height	MOC
BZ164	VP1	05/03/2023	15:02	Buzzard	2	42	0	42	0	0	conifer plantation; circling over forestry at 20-60m height	MOC

Table 7 - 4 - 38 Buzzard winter walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ001	13/10/2022	13:28	Buzzard	1	recently-felled woodland and conifer plantation; hunting, hovering, soaring, buzzard soaring over felled forestry and hovering, looking for prey, descended from view, rose up again and resumed hovering, soaring then descended to try to get food. then flew up again soared more over felled forestry then flew south over conifer woods	SOB
BZ002	21/12/2022	10:12	Buzzard	1	wet grassland and conifer plantation; perched, flying, flew off from tree into forestry	AM
BZ003	21/12/2022	12:05	Buzzard	1	conifer plantation and improved agricultural grassland; flying, flying across hillside	AM
BZ004	21/12/2022	14:05	Buzzard	1	wet grassland and conifer plantation; flying, flew into forestry	AM
BZ005	16/03/2023	14:00	Buzzard	1	wet grassland; hunting	TS
BZ006	16/03/2023	15:40	Buzzard	1	improved agricultural grassland and wet grassland; hunting	TS

Table 7 - 4 - 39 Buzzard breeding walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ001	19/04/2021	12:05	Buzzard	1	dry-humid acid grassland and conifer plantation; circling, soaring, bird soaring up over farmland and forestry (suitable nesting habitat; possible breeder)	AM
BZ003	08/06/2021	11:40	Buzzard	2	conifer plantation and wet grassland; circling up, pair flew out from forestry below road, circled up, soaring for 3-4 mins, 1 away north low in valley, other back south (suitable nesting habitat; possible breeder)	AM
BZ004	08/06/2021	14:32	Buzzard	2	conifer plantation and dry siliceous heath; circling, soaring, pair buzzard over plantation then circling up to north west, one low over tops near turbine, other soaring up very high north east then south (suitable nesting habitat; possible breeder)	AM
BZ006	13/04/2022	12:09	Buzzard	2	conifer plantation; soaring over forestry, calling (suitable nesting habitat; possible breeder)	MOC
BZ007	13/04/2022	12:33	Buzzard	1	conifer plantation; hunting over forestry (suitable nesting habitat; possible breeder)	MOC
BZ009	13/04/2022	15:16	Buzzard	1	conifer plantation; hunting over forestry (suitable nesting habitat; possible breeder)	MOC
BZ010	13/04/2022	16:15	Buzzard	1	conifer plantation; flying directly north west (suitable nesting habitat; possible breeder)	MOC
BZ013	14/04/2022	15:16	Buzzard	1	improved agricultural grassland; flying north west, at 80-120m height (suitable nesting habitat; possible breeder)	MOC
BZ014	22/05/2022	12:07	Buzzard	2	conifer plantation; circling, calling, adults (pair; probable breeding)	MOC
BZ015	22/05/2022	13:00	Buzzard	1	conifer plantation; flying over (suitable nesting habitat; possible breeder)	MOC
BZ016	22/05/2022	13:06	Buzzard	1	conifer plantation and conifer plantation; flying over, adult, heavy moult (suitable nesting habitat; possible breeder)	MOC
BZ017	22/05/2022	15:40	Buzzard	1	conifer plantation; flying over (suitable nesting habitat; possible breeder)	MOC
BZ018	22/05/2022	15:58	Buzzard	2	conifer plantation; circling, calling (suitable nesting habitat; possible breeder)	MOC
BZ019	23/05/2022	12:26	Buzzard	2	conifer plantation and improved agricultural grassland; circling, calling, adults (pair; probable breeding)	MOC
BZ020	23/05/2022	13:56	Buzzard	1	conifer plantation and improved agricultural grassland; flying over, adult (suitable nesting habitat; possible breeder)	MOC
BZ021	23/05/2022	14:15	Buzzard	1	improved agricultural grassland and conifer plantation; flying over (suitable nesting habitat; possible breeder)	MOC
BZ022	23/05/2022	14:45	Buzzard	1	conifer plantation; flying over (suitable nesting habitat; possible breeder)	MOC



Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ023	23/05/2022	15:00	Buzzard	1	improved agricultural grassland and conifer plantation; flying over, adult (suitable nesting habitat; possible breeder)	MOC
BZ025	23/05/2022	16:50	Buzzard	2	improved agricultural grassland and conifer plantation; calling, circling, soaring, adults (suitable nesting habitat; possible breeder)	MOC
BZ026	07/07/2022	15:11	Buzzard	1	conifer plantation; circling (suitable nesting habitat; possible breeder)	JQ
BZ027	07/07/2022	15:11	Buzzard	2	conifer plantation; circling (pair; probable breeding)	JQ
BZ028	26/07/2022	12:01	Buzzard	1	mixed broadleaved woodland and improved agricultural grassland; perched (suitable nesting habitat; possible breeder)	JOM
BZ029	26/07/2022	12:05	Buzzard	1	improved agricultural grassland and immature woodland; perched, flight (suitable nesting habitat; possible breeder)	JOM
BZ030	26/07/2022	12:10	Buzzard	2	improved agricultural grassland and conifer plantation; flight (pair; probable breeding)	JOM
BZ031	26/07/2022	12:13	Buzzard	2	conifer plantation, immature woodland and improved agricultural grassland; circling, gliding (pair; probable breeding)	JOM
BZ032	26/07/2022	13:25	Buzzard	1	improved agricultural grassland and conifer plantation; circling, soaring, avoidance (rooks) (suitable nesting habitat; possible breeder)	JOM
BZ033	27/07/2022	11:25	Buzzard	1	improved agricultural grassland and hedgerows; perched, flight (suitable nesting habitat; possible breeder)	JOM
BZ034	27/07/2022	11:56	Buzzard	1	conifer plantation and mixed broadleaved/conifer woodland; flight (suitable nesting habitat; possible breeder)	JOM
BZ035	27/07/2022	13:35	Buzzard	1	improved agricultural grassland and conifer plantation; flight (suitable nesting habitat; possible breeder)	JOM

Table 7 - 4 - 40 Buzzard breeding raptor survey data

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ001	BR8	10/04/2021	12:18	Buzzard	1	mixed broadleaved/conifer woodland and scrub, hunting, buzzard hunting over woodland, scrub	suitable nesting habitat; possible breeder	TK
BZ002	BR7	16/05/2021	11:26	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, flying over, buzzard in flight over woodland/farmland	suitable nesting habitat; possible breeder	TK
BZ003	BR8	12/06/2021	15:02	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, flying over, buzzard in flight-travelling	suitable nesting habitat; possible breeder	TK
BZ004	BR5	27/06/2021	14:42	Buzzard	1	improved agricultural grassland, conifer plantation and mixed broadleaved/conifer woodland, soaring, buzzard soaring,	suitable nesting habitat; possible breeder	TK
BZ005	BR6	09/07/2021	12:52	Buzzard	1	mixed broadleaved/conifer woodland and conifer plantation, soaring, buzzard soaring over mixed woodland	suitable nesting habitat; possible breeder	TK
BZ006	BR2	08/04/2022	12:25	Buzzard	1	conifer plantation, scrub and wet grassland, circling high	suitable nesting habitat; possible breeder	TS
BZ007	BR2	08/04/2022	13:30	Buzzard	1	wet grassland, conifer plantation and scrub, circling high	suitable nesting habitat; possible breeder	TS
BZ009	BR1	08/04/2022	15:36	Buzzard	1	oak-ash-hazel woodland, oak-birch-holly woodland and wet grassland, flying	suitable nesting habitat; possible breeder	TS
BZ011	BR3	09/04/2022	16:15	Buzzard	1	oak-ash-hazel woodland and improved agricultural grassland, circling, flying, lost flying low	suitable nesting habitat; possible breeder	TS
BZ015	BR5	15/04/2022	12:50	Buzzard	1	improved agricultural grassland and hedgerows, circling, flying	suitable nesting habitat; possible breeder	TS



Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ017	BR5	15/04/2022	14:15	Buzzard	1	improved agricultural grassland, wet grassland and scrub, hunting, third bird appeared	suitable nesting habitat; possible breeder	TS
BZ018	BR5	15/04/2022	14:42	Buzzard	1	improved agricultural grassland, wet grassland and conifer plantation, hunting	suitable nesting habitat; possible breeder	TS
BZ019	BR6	15/04/2022	17:28	Buzzard	1	improved agricultural grassland, wet grassland and conifer plantation, circling	suitable nesting habitat; possible breeder	TS
BZ021	BR6	15/04/2022	18:03	Buzzard	1	wet grassland, scrub and conifer plantation, circling	suitable nesting habitat; possible breeder	TS
BZ022	BR8	19/04/2022	12:01	Buzzard	1	conifer plantation, wet grassland and recently-felled woodland, circling hunting	suitable nesting habitat; possible breeder	TS
BZ023	BR7	19/04/2022	17:29	Buzzard	1	conifer plantation and scrub, hunting	suitable nesting habitat; possible breeder	TS
BZ024	BR8	22/04/2022	14:20	Buzzard	1	wet grassland, hunting	suitable nesting habitat; possible breeder	TS
BZ025	BR8	22/04/2022	14:50	Buzzard	1	recently-felled woodland and scrub, hunting, mobbed, mobbed by kestrel,	suitable nesting habitat; possible breeder	TS
BZ028	BR8	22/04/2022	17:15	Buzzard	1	recently-felled woodland, scrub and wet grassland, hunting	suitable nesting habitat; possible breeder	TS
BZ029	BR3	22/04/2022	18:48	Buzzard	1	oak-ash-hazel woodland, flying, mobbed	suitable nesting habitat; possible breeder	TS
BZ030	BR3	22/04/2022	19:47	Buzzard	1	oak-ash-hazel woodland and improved agricultural grassland, flying, mobbed, perched	suitable nesting habitat; possible breeder	TS
BZ031	BR1	03/05/2022	11:31	Buzzard	1	oak-ash-hazel woodland and improved agricultural grassland, circling, mobbed by kestrel	suitable nesting habitat; possible breeder	TS
BZ032	BR2	03/05/2022	15:17	Buzzard	1	conifer plantation, flying	suitable nesting habitat; possible breeder	TS
BZ033	BR2	03/05/2022	16:03	Buzzard	1	conifer plantation and wet grassland, flying mobbed	suitable nesting habitat; possible breeder	TS
BZ036	BR3	07/05/2022	12:29	Buzzard	1	buildings and artificial surfaces and conifer plantation, flying mobbed , lost high	suitable nesting habitat; possible breeder	TS
BZ037	BR3	07/05/2022	12:57	Buzzard	1	conifer plantation, oak-ash-hazel woodland and improved agricultural grassland, circling, flying	suitable nesting habitat; possible breeder	TS
BZ038	BR3	07/05/2022	13:25	Buzzard	1	conifer plantation, oak-ash-hazel woodland and improved agricultural grassland, circling, flying, mobbed, perched	suitable nesting habitat; possible breeder	TS
BZ039	BR4	07/05/2022	15:36	Buzzard	1	improved agricultural grassland, flying, mobbed	suitable nesting habitat; possible breeder	TS
BZ040	BR5	08/05/2022	14:55	Buzzard	1	conifer plantation, improved agricultural grassland and treelines, flying, mobbed	suitable nesting habitat; possible breeder	TS
BZ041	BR5	08/05/2022	15:21	Buzzard	1	improved agricultural grassland and treelines, flying, perched	suitable nesting habitat; possible breeder	TS
BZ043	BR8	13/05/2022	13:20	Buzzard	1	conifer plantation, flying	suitable nesting habitat; possible breeder	TS
BZ045	BR9	19/05/2022	16:40	Buzzard	1	recently-felled woodland and conifer plantation, flying, hunting	suitable nesting habitat; possible breeder	TS
BZ046	BR9	19/05/2022	17:35	Buzzard	1	recently-felled woodland, scrub and conifer plantation, hunting, mobbed, mobbed by kestrel	suitable nesting habitat; possible breeder	TS
BZ047	BR1	04/06/2022	14:00	Buzzard	1	conifer plantation and wet grassland, flying, mobbed	suitable nesting habitat; possible breeder	TS
BZ048	BR1	04/06/2022	14:26	Buzzard	1	oak-ash-hazel woodland, flying	suitable nesting habitat; possible breeder	TS
BZ049	BR5	08/06/2022	14:31	Buzzard	1	conifer plantation and wet grassland, flying, hunting	suitable nesting habitat; possible breeder	TS

Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ050	BR5	08/06/2022	16:22	Buzzard	1	wet grassland, treelines and mixed broadleaved woodland, flying	suitable nesting habitat; possible breeder	TS
BZ051	BR6	08/06/2022	17:36	Buzzard	1	conifer plantation and scrub, flying	suitable nesting habitat; possible breeder	TS
BZ052	BR6	08/06/2022	18:51	Buzzard	1	conifer plantation and wet grassland, flying	suitable nesting habitat; possible breeder	TS
BZ053	BR8	09/06/2022	15:57	Buzzard	1	wet grassland, oak-ash-hazel woodland and conifer plantation, flying	suitable nesting habitat; possible breeder	TS
BZ054	BR8	09/06/2022	16:33	Buzzard	1	wet grassland, flying, hunting	suitable nesting habitat; possible breeder	TS
BZ055	BR7	09/06/2022	18:20	Buzzard	1	wet grassland, flying mobbed	suitable nesting habitat; possible breeder	TS
BZ056	BR7	09/06/2022	19:30	Buzzard	1	wet grassland, flying, hunting, mobbed	suitable nesting habitat; possible breeder	TS
BZ058	BR5	19/07/2022	12:01	Buzzard	1	improved agricultural grassland and conifer plantation, in flight	suitable nesting habitat; possible breeder	CG
BZ059	BR5	19/07/2022	12:50	Buzzard	1	conifer plantation and improved agricultural grassland, hunting	suitable nesting habitat; possible breeder	CG
BZ060	BR4	19/07/2022	13:45	Buzzard	1	improved agricultural grassland, in flight, perching	suitable nesting habitat; possible breeder	CG
BZ061	BR4	19/07/2022	13:55	Buzzard	1	improved agricultural grassland and conifer plantation, hunting	suitable nesting habitat; possible breeder	CG
BZ062	BR4	19/07/2022	13:56	Buzzard	1	improved agricultural grassland, in flight	suitable nesting habitat; possible breeder	CG
BZ063	BR4	19/07/2022	14:16	Buzzard	1	conifer plantation and improved agricultural grassland, hunting	suitable nesting habitat; possible breeder	CG
BZ064	BR1b	22/07/2022	10:35	Buzzard	1	conifer plantation and improved agricultural grassland, soaring	suitable nesting habitat; possible breeder	CG
BZ065	BR1b	22/07/2022	11:15	Buzzard	1	conifer plantation and improved agricultural grassland, in flight, calling	suitable nesting habitat; possible breeder	CG
BZ066	BR1b	22/07/2022	11:16	Buzzard	1	conifer plantation and improved agricultural grassland, soaring	suitable nesting habitat; possible breeder	CG
BZ067	BR1b	22/07/2022	11:18	Buzzard	1	conifer plantation and immature woodland, soaring, calling	suitable nesting habitat; possible breeder	CG
BZ068	BR1b	22/07/2022	11:24	Buzzard	1	improved agricultural grassland and conifer plantation, hunting	suitable nesting habitat; possible breeder	CG
BZ074	BR9	26/07/2022	13:44	Buzzard	1	improved agricultural grassland, hunting	suitable nesting habitat; possible breeder	CG

Table 7 - 4 - 41 Buzzard incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ012	Breeding Woodcock Survey; Carrowkeale, coilte Forrest	02/06/2021	21:50	Buzzard	1	scrub/transitional woodland and conifer plantation; flying	JG
BZ013	Waterbird Distribution Survey; Anglessy road beside muiyeen river	05/08/2021	12:48	Buzzard	1	mixed broadleaved woodland and hedgerows; travelling flight	JG
BZ002	Hen Harrier Roost Survey; HHVP1	03/01/2022	16:40	Buzzard	1	conifer plantation and wet grassland; flying over, buzzard flying over 25-200m high.	TK
BZ004	Waterbird Distribution Survey; Knockroe	27/04/2022	14:38	Buzzard	2	improved agricultural grassland; soaring, 2 buzzards circling around each other.	SOB
BZ005	Hen Harrier Roost Survey; 100m East of HHVP5	09/11/2022	16:35	Buzzard	1	wet grassland and conifer plantation; flying, perched	TS

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ006	Waterbird Distribution Survey; 52.5992, -8.1313	13/02/2023	10:40	Buzzard	1	oak-ash-hazel woodland and improved agricultural grassland; flying	TS
BZ007	Waterbird Distribution Survey; 52.5853, -8.1203	27/02/2023	12:40	Buzzard	1	improved agricultural grassland; mobbed	TS
BZ008	Waterbird Distribution Survey; 52.5877, -8.1083	14/03/2023	13:30	Buzzard	1	wet grassland and conifer plantation; flying, circling	TS
BZ009	Waterbird Distribution Survey; 52.5583, -8.0794	30/03/2023	14:35	Buzzard	1	tilled land; flying, over corn stubble	TS
BZ010	Waterbird Distribution Survey; 500m North West of the bog marl	30/03/2023	16:25	Buzzard	1	improved agricultural grassland; soaring	TS
BZ011	Waterbird Distribution Survey; 52.5700, -8.0128	30/03/2023	16:50	Buzzard	1	improved agricultural grassland; perched, feeding	TS

1.16

Sparrowhawk

Table 7 - 4 - 42 Sparrowhawk vantage point survey data

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
SH001	VP3	13/06/2021	08:11	Sparrowhawk	1	20	20	0	0	0	improved agricultural grassland and hedgerows; hunting, male sparrowhawk hunting along hedgerow.	TK
SH002	VP5	13/08/2021	16:55	Sparrowhawk	1	30	30	0	0	0	scrub and conifer plantation; hunting/travelling flight, male	JG
SH003	VP2	14/09/2021	15:15	Sparrowhawk	1	15	15	0	0	0	improved agricultural grassland, hedgerows and conifer plantation; travelling flight, juvenile	JG
SH004	VP3	05/11/2021	not recorded	Sparrowhawk	1	315	0	15	300	0	conifer plantation; soaring, sparrowhawk soaring over forestry, descended into forestry	TK
SH005	VP4	15/01/2022	not recorded	Sparrowhawk	1	35	0	15	20	0	improved agricultural grassland and hedgerows; flying over, sparrowhawk flying over	TK
SH006	VP5	02/02/2022	not recorded	Sparrowhawk	1	15	15	0	0	0	conifer plantation and improved agricultural grassland; hunting	TK
SH007	VP2	22/05/2022	19:07	Sparrowhawk	1	33	0	0	33	0	conifer plantation; soaring over forestry 20-80m height, adult female	MOC
SH008	VP4	29/07/2022	15:10	Sparrowhawk	1	200	10	30	160	0	wet grassland and improved agricultural grassland; flying mobbed	TS
SH009	VP4	29/07/2022	17:08	Sparrowhawk	1	180	0	20	160	0	wet grassland and improved agricultural grassland; flying	TS
SH010	VP4	29/07/2022	17:11	Sparrowhawk	1	15	15	0	0	0	improved agricultural grassland; flying	TS
SH011	VP3	04/08/2022	15:55	Sparrowhawk	1	10	10	0	0	0	recently-felled woodland; flying	TS
SH012	VP4	11/08/2022	10:04	Sparrowhawk	1	14	14	0	0	0	improved agricultural grassland; low hunting flight across fields, female, juvenile	MOC



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
SH013	VP4	11/08/2022	10:07	Sparrowhawk	1	18	0	18	0	0	improved agricultural grassland; flying at 15-20m height, female, juvenile	MOC
SH014	VP4	11/08/2022	12:00	Sparrowhawk	1	135	0	0	135		improved agricultural grassland and conifer plantation; female sparrowhawk soaring at 40-60m height, female	MOC
SH015	VP5	13/08/2022	14:31	Sparrowhawk	1	12	12	0	0	0	improved agricultural grassland; female flew past vp at 3-6m height, female	MOC
SH016	VP1	26/09/2022	17:33	Sparrowhawk	1	15	15	0	0	0	hedgerows and wet grassland; hunting, flight, female sparrowhawk hunting along hedgerow in wet grassland	SOB
SH017	VP3	26/10/2022	08:26	Sparrowhawk	1	14	14	0	0	0	conifer plantation; low hunting flight, adult female	MOC
SH018	VP5	31/10/2022	10:39	Sparrowhawk	1	9	0	9	0	0	improved agricultural grassland; flew by vp at 3m height, female	MOC
SH019	VP1	01/11/2022	16:01	Sparrowhawk	1	22	10	12	0	0	conifer plantation; flying south east at 5-20m height, female	MOC
SH020	VP3	12/11/2022	10:01	Sparrowhawk	1	35	5	30	0	0	conifer plantation; circling over forestry and dropping quickly, at 5-25m height, female	MOC
SH021	VP4	13/11/2022	11:39	Sparrowhawk	1	7	7	0	0	0	improved agricultural grassland; low hunting flight, female	MOC
SH022	VP1	28/12/2022	12:08	Sparrowhawk	1	16	16	0	0	0	improved agricultural grassland; low hunting flight, at 3-8m height, female	MOC
SH023	VP4	23/02/2023	09:00	Sparrowhawk	1	12	12	0	0	0	improved agricultural grassland; low hunting flight at 3-4m height, female	MOC
SH024	VP2	06/03/2023	13:52	Sparrowhawk	1	6	6	0	0	0	improved agricultural grassland; perched on branch right by vp for 40 seconds then flew n at 1m height, adult female	MOC
SH025	VP3	09/03/2023	13:42	Sparrowhawk	1	53	0	0	53	0	conifer plantation; soaring/ circling over young forestry at 40-120m height, adult female	MOC

Table 7 - 4 - 43 Sparrowhawk winter walkover survey data

Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SH001	24/01/2023	14:42	Sparrowhawk	1	improved agricultural grassland and conifer plantation; flying south east at 50m height, female	MOC

Table 7 - 4 - 44 Sparrowhawk breeding walkover survey data

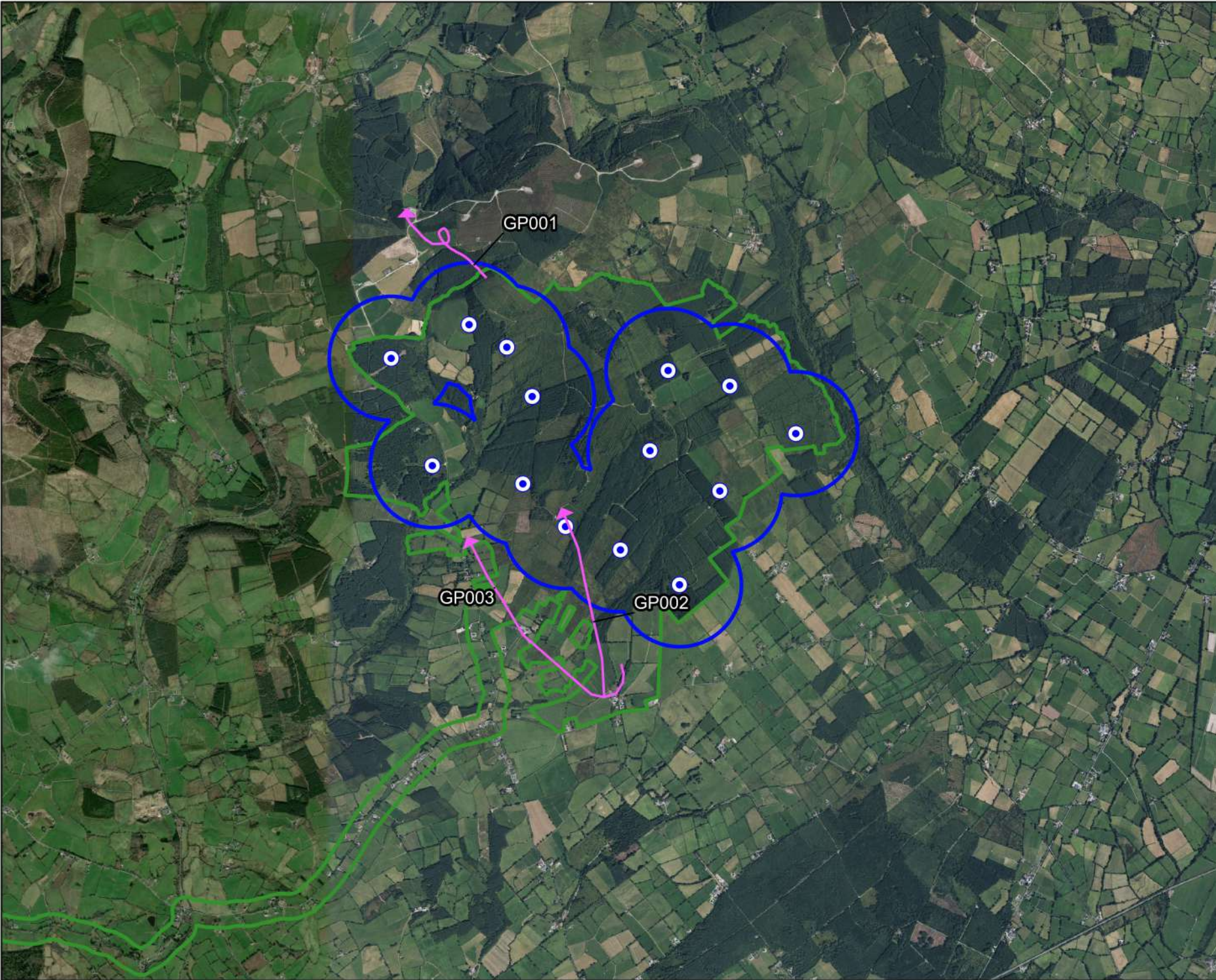
Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SH001	23/05/2022	15:58	Sparrowhawk	1	improved agricultural grassland; low hunting flight, adult female (suitable nesting habitat; possible breeder)	MOC
SH002	27/07/2022	13:05	Sparrowhawk	1	conifer plantation; hunting (suitable nesting habitat; possible breeder)	JOM

Table 7 - 4 - 45 Sparrowhawk breeding raptor survey data





Ref.	BR	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
SH001	BR7	25/04/2021	10:30	Sparrowhawk	1	mixed broadleaved/conifer woodland and conifer plantation, soaring, sparrowhawk soaring, descended into woodland	suitable nesting habitat; possible breeder	TK
SH003	BR3	23/05/2021	11:21	Sparrowhawk	1	improved agricultural grassland, mixed broadleaved/conifer woodland and conifer plantation, in flight	suitable nesting habitat; possible breeder	TK
SH004	BR4	27/06/2021	12:13	Sparrowhawk	1	improved agricultural grassland and mixed broadleaved/conifer woodland, hunting, sparrowhawk hunting.	suitable nesting habitat; possible breeder	TK
SH005	BR3	09/04/2022	16:55	Sparrowhawk	1	improved agricultural grassland and conifer plantation, circling, flying, female	suitable nesting habitat; possible breeder	TS
SH006	BR6	15/04/2022	18:18	Sparrowhawk	1	conifer plantation and improved agricultural grassland, circling	suitable nesting habitat; possible breeder	TS
SH008	BR7	09/06/2022	19:05	Sparrowhawk	1	wet grassland and scrub, flying mobbed, female	suitable nesting habitat; possible breeder	TS
SH012	BR2	21/07/2022	12:45	Sparrowhawk	1	conifer plantation and scrub, in flight, female	suitable nesting habitat; possible breeder	CG

Table 7 - 4 - 46 Sparrowhawk incidental survey data

Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SH001	Waterbird Distribution Survey; 300m East of BR4	05/11/2022	10:15	Sparrowhawk	1	mixed broadleaved/conifer woodland and eroding/upland rivers; mobbed	TS
SH002	Hen Harrier Roost Survey; near hhyp3	18/01/2023	16:50	Sparrowhawk	1	conifer plantation and wet grassland; flying	TS



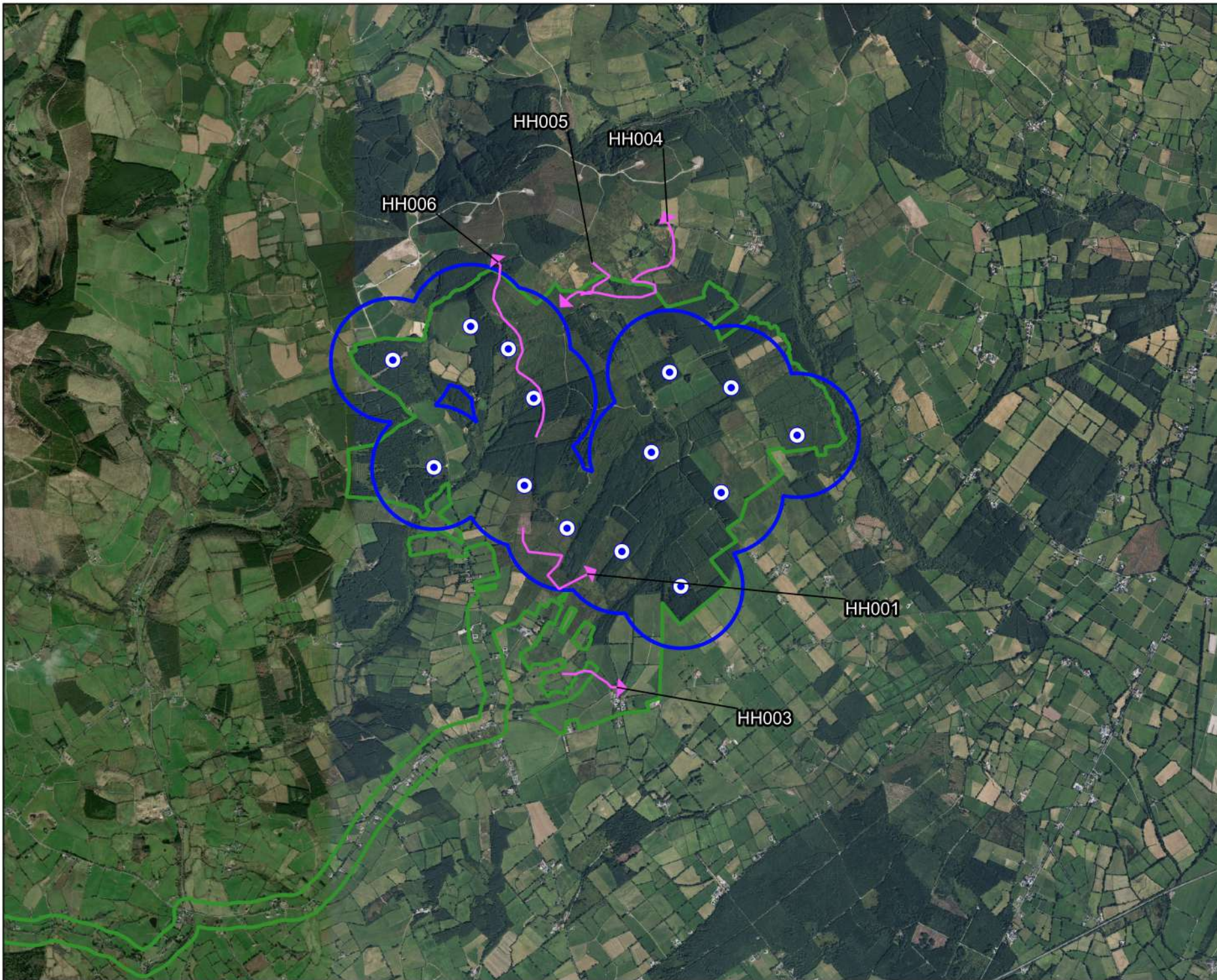
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-  Proposed Turbine Layout
-  500m Buffer of Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Vantage Point Survey Golden Plover Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 1
Scale	Date
1:40,000	30.01.26
 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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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  500m Buffer of Proposed Turbine Layout
-  Flight Observation



Drawing Title

Vantage Point Survey
Hen Harrier Observations

Project Title

Carrow Wind Farm

Drawn By

NL

Checked By

PM

Project No.

231102

Drawing No.

Fig. 7 - 4 - 2

Scale

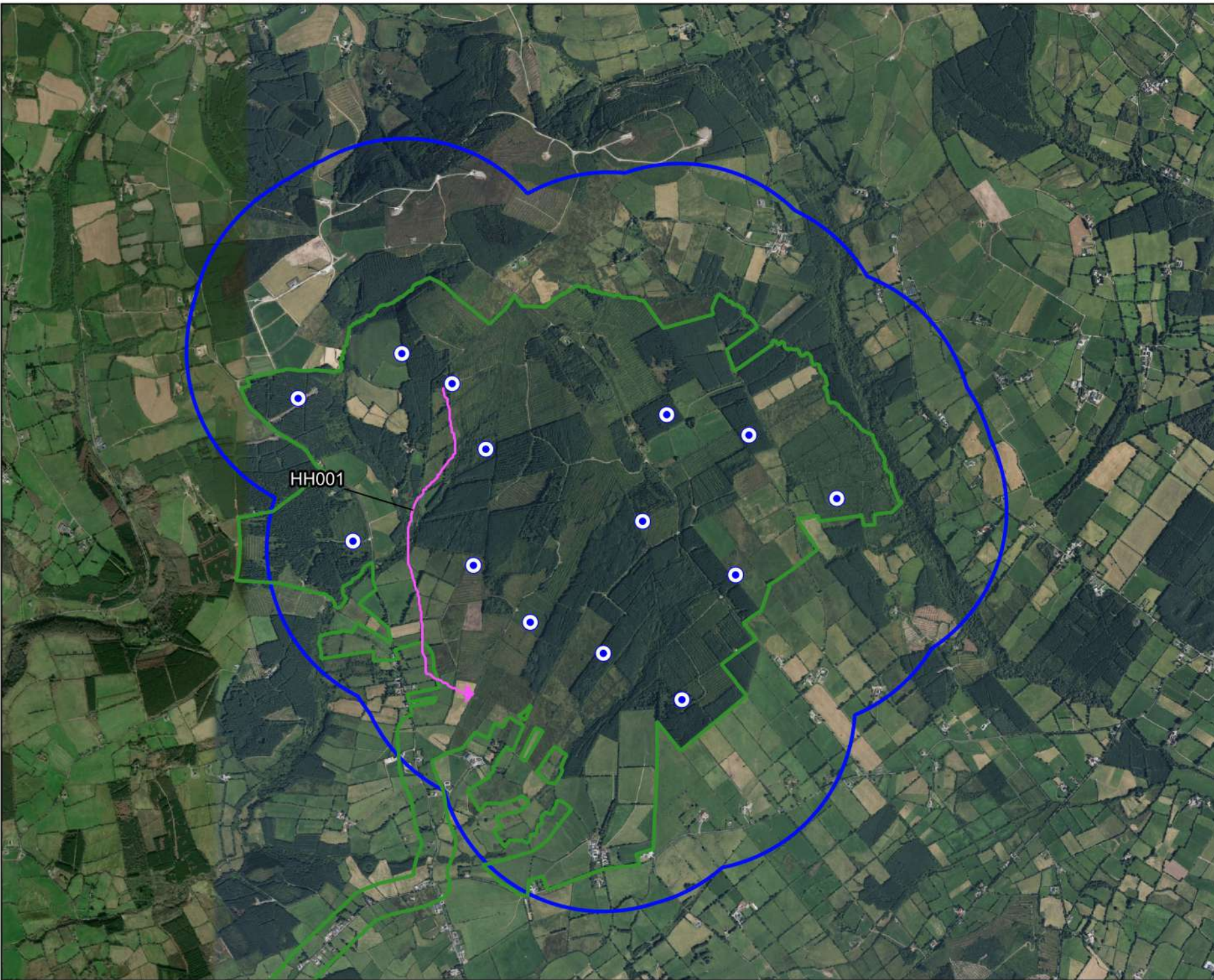
1:40,000

Date





30.01.26



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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Survey Area
-  Flight Observation



Drawing Title

Breeding Walkover Survey
Hen Harrier Observations

Project Title

Carrow Wind Farm

Drawn By

NL

Checked By

PM

Project No.

231102

Drawing No.

Fig. 7 - 4 - 3

Scale

1:30,000

Date




30.01.26



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Map Legend




-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Hen Harrier Roost Survey Hen Harrier Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 4
Scale	Date
1:22,000	30.01.26
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Breeding Raptor Survey Hen Harrier Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 5
Scale	Date
1:40,000	30.01.26
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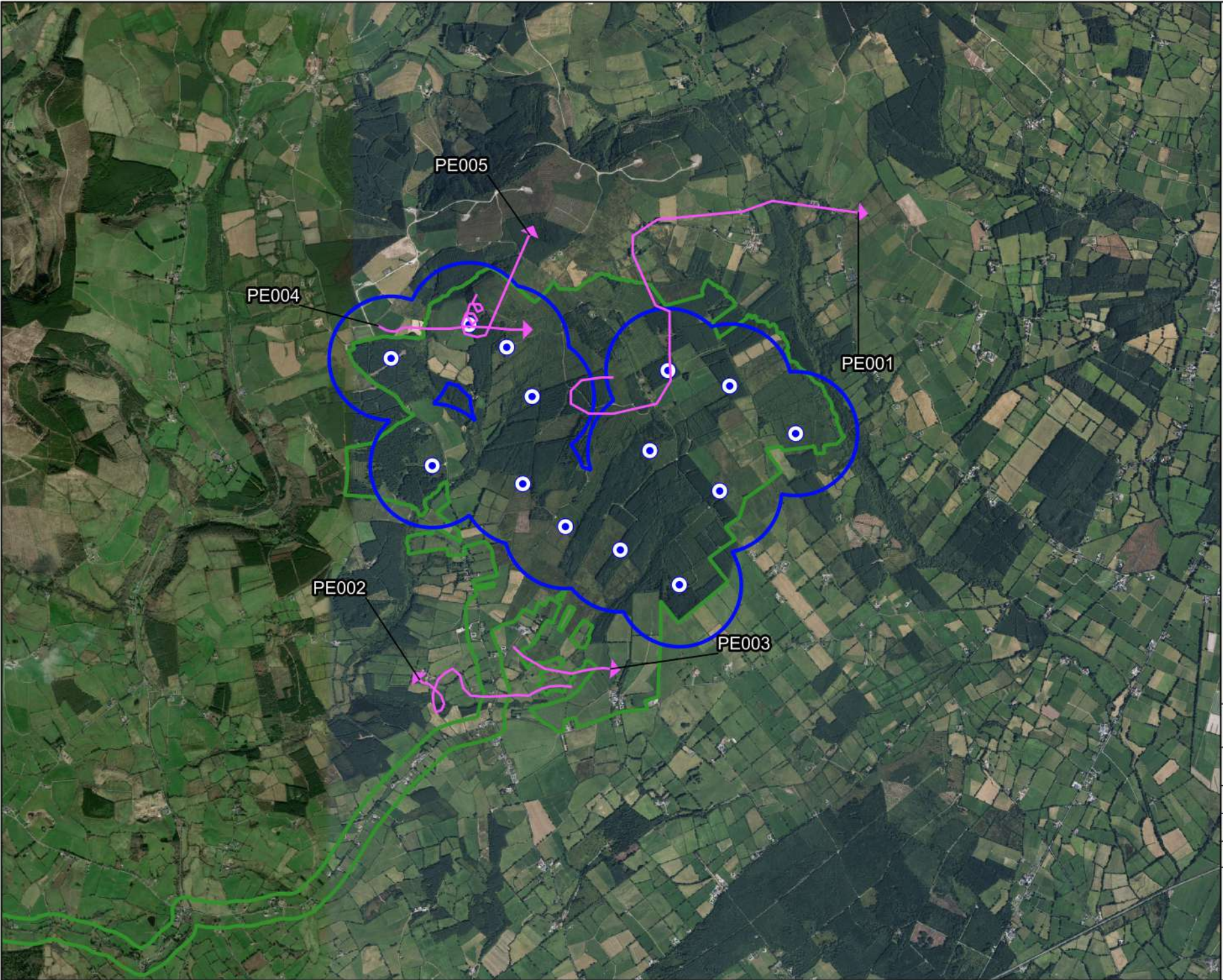
Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Species Observation







Drawing Title	
Waterbird Distribution and Abundance Survey Little Egret Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 6
Scale	Date
1:55,000	30.01.26
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  500m Buffer of Proposed Turbine Layout
-  Flight Observation



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Drawing Title
**Vantage Point Survey
 Peregrine Falcon Observations**




Project Title
Carrow Wind Farm

Drawn By NL	Checked By PM
Project No. 231102	Drawing No. Fig. 7 - 4 - 7
Scale 1:40,000	Date 30.01.26

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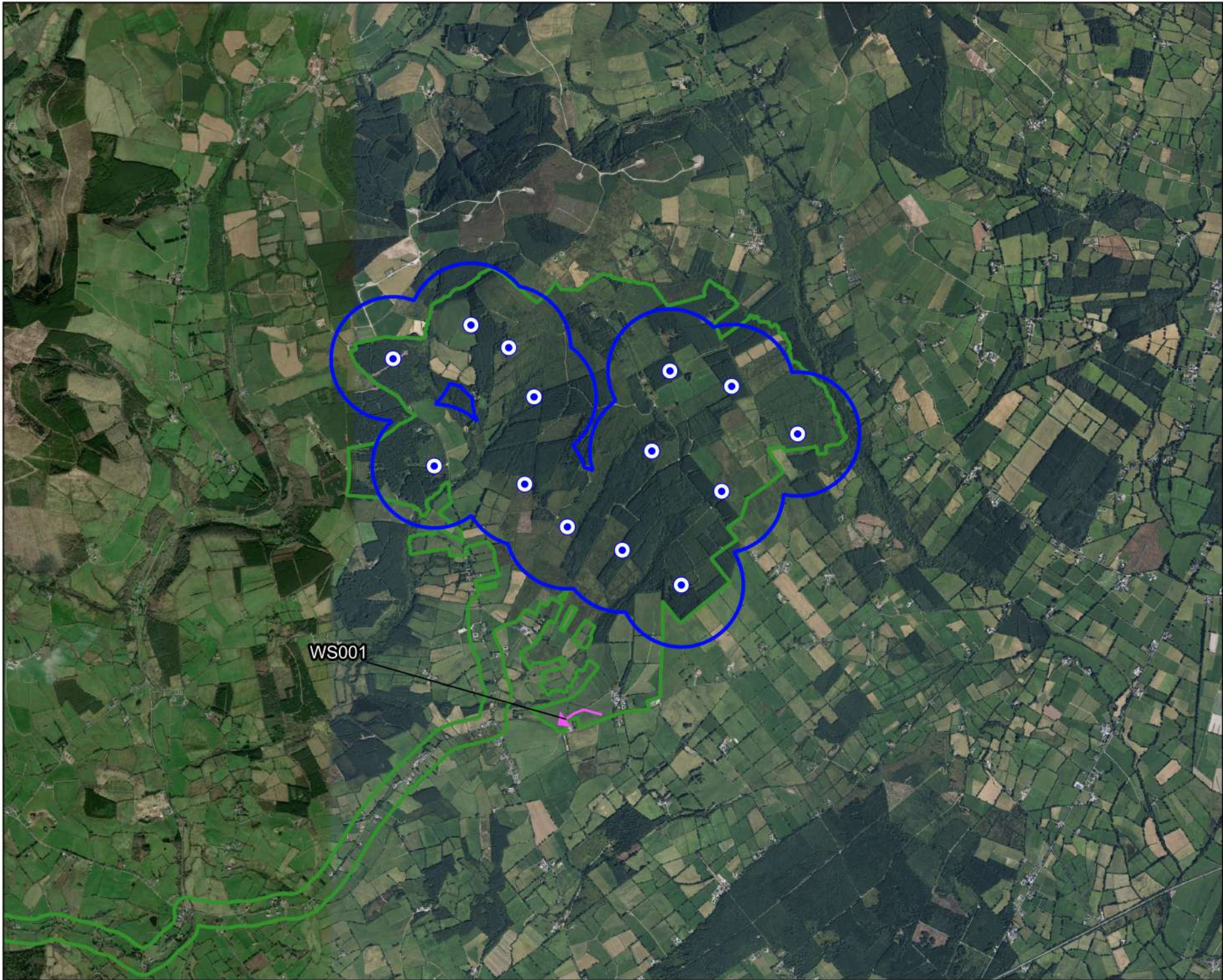


Map Legend


-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Peregrine Falcon Incidental Records	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 8
Scale	Date
1:40,000	30.01.26
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  500m Buffer of Proposed Turbine Layout
-  Flight Observation



Drawing Title

Vantage Point Survey
Whooper Swan Observations

Project Title

Carrow Wind Farm

Drawn By

NL PM

Checked By

Project No. 231102 Drawing No. Fig. 7 - 4 - 9

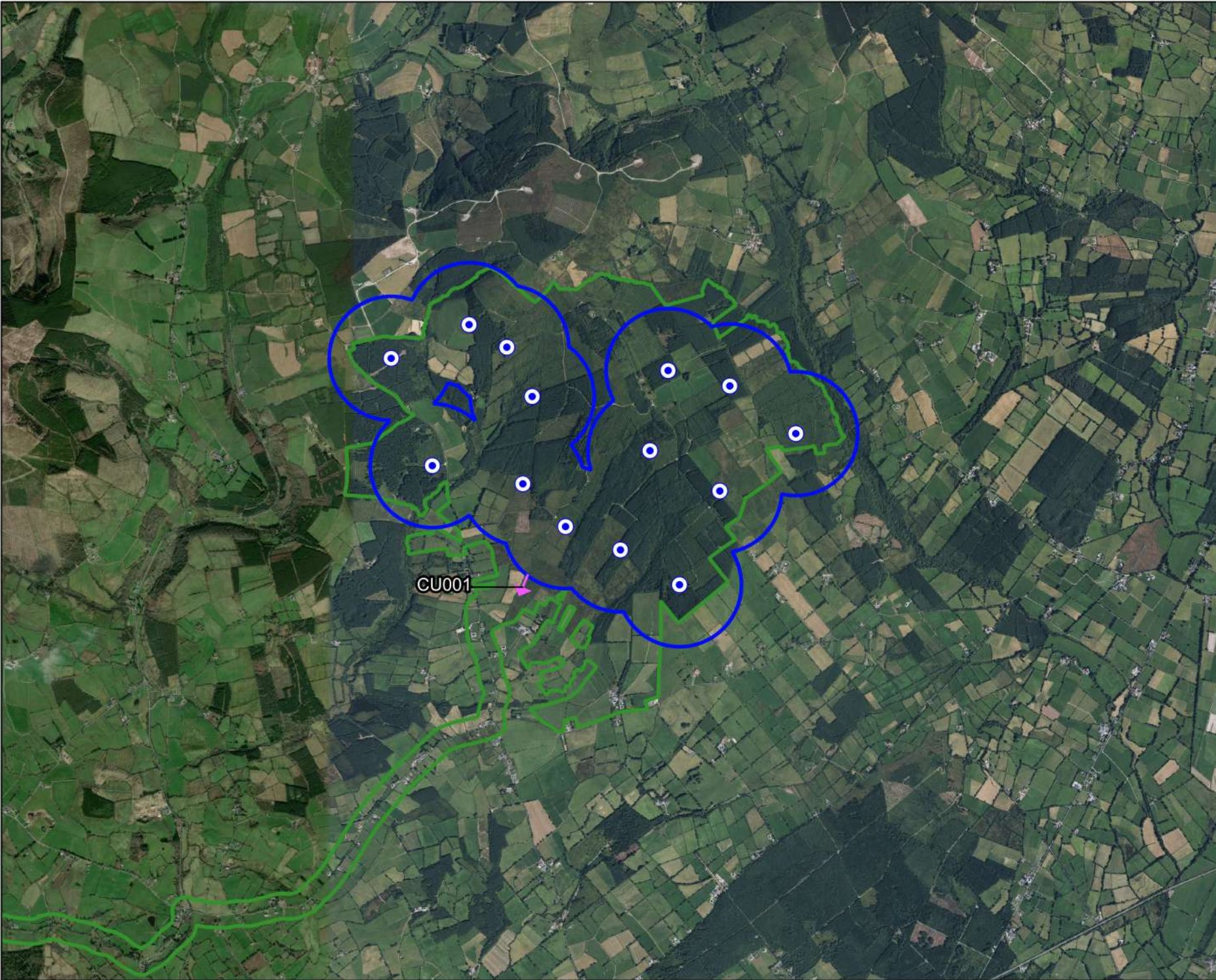
Scale 1:40,000 Date 30.01.26

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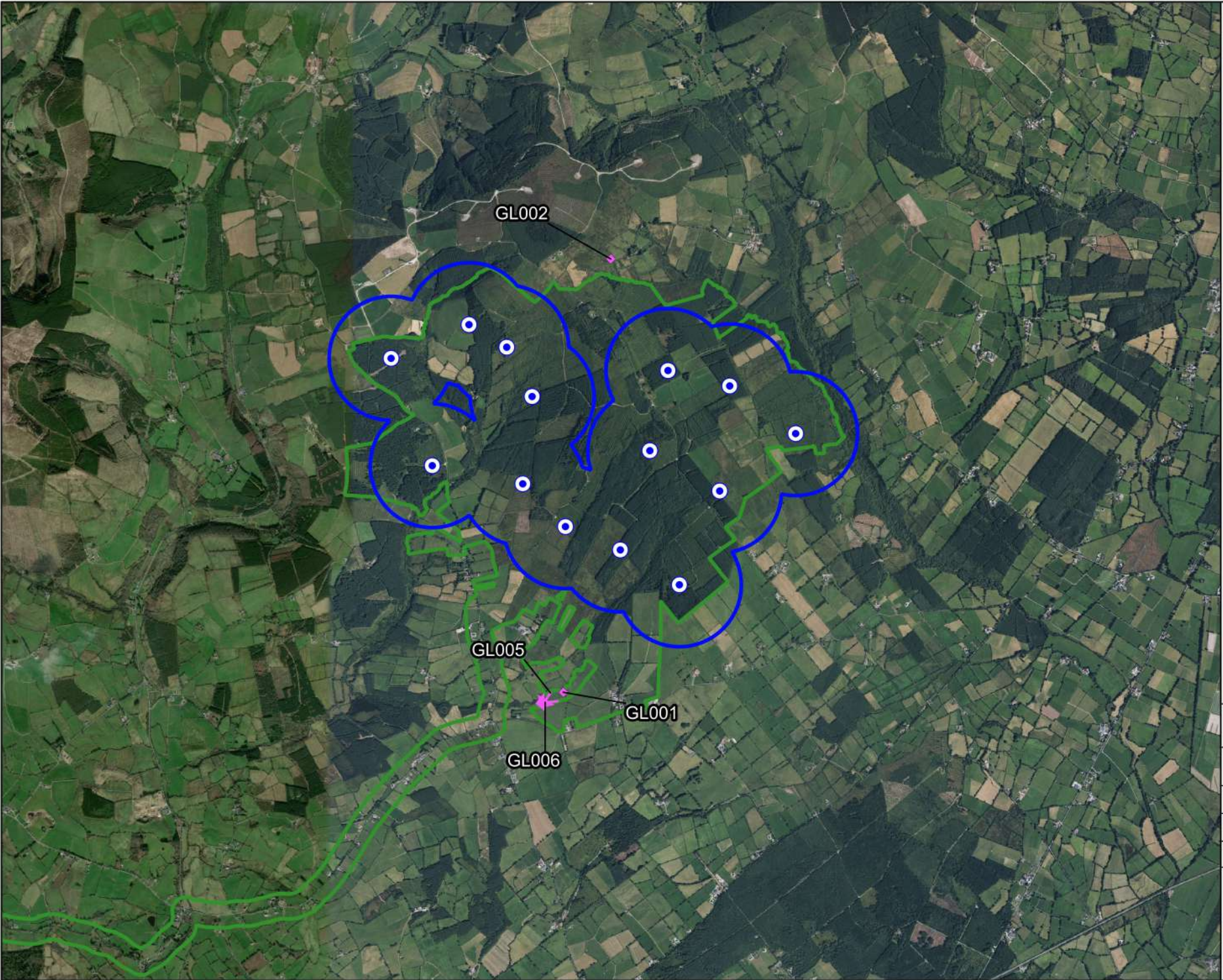
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-  Proposed Development
-  Proposed Turbine Layout
-  500m Buffer of Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Vantage Point Survey Curlew Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 10
Scale	Date
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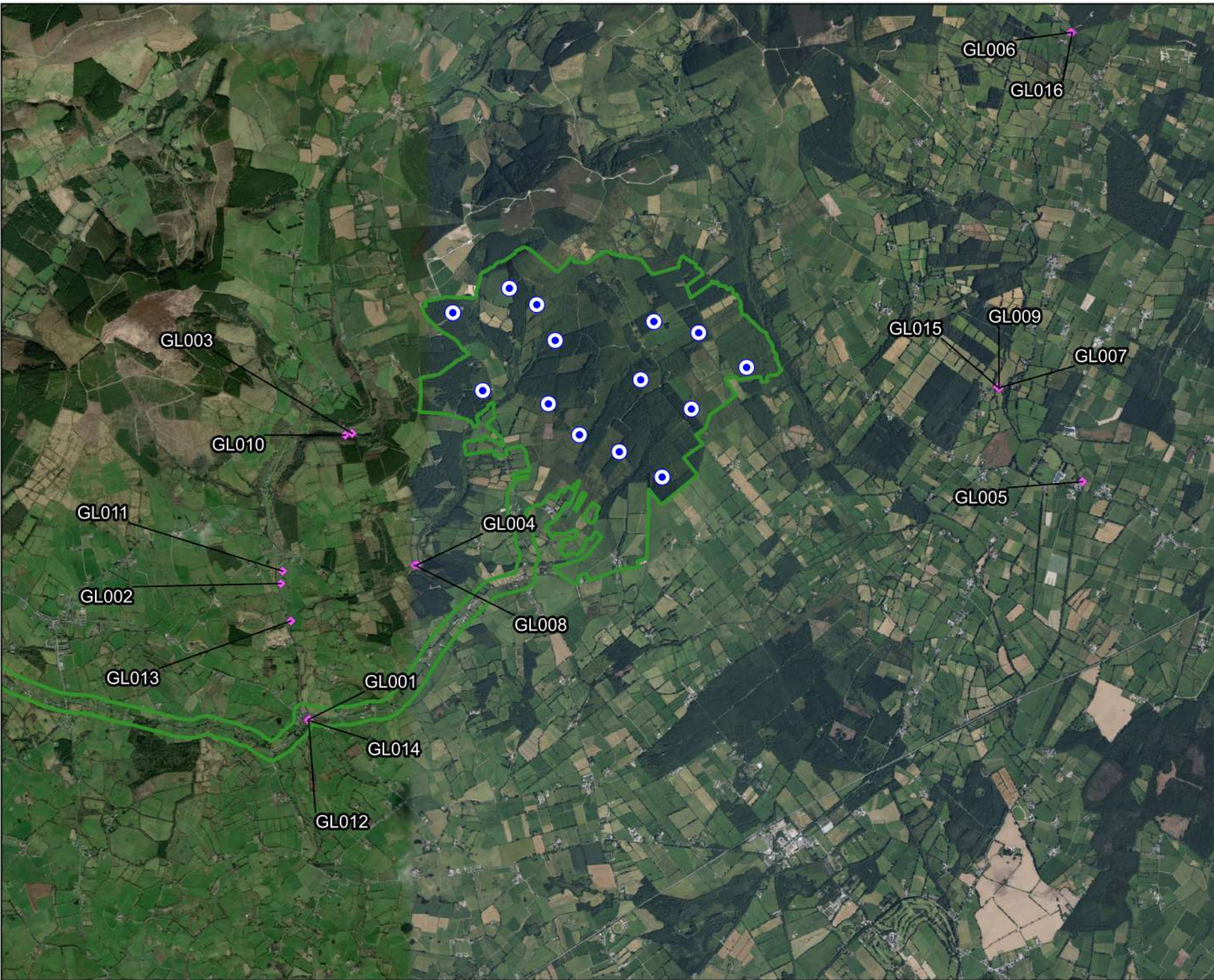


- ### Map Legend
-  Proposed Development
 -  Proposed Turbine Layout
 -  500m Buffer of Proposed Turbine Layout
 -  Flight Observation
 -  Non-Flight Observation



Drawing Title	
Vantage Point Survey Grey Wagtail Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 11
Scale	Date
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Map Legend





- Proposed Development
- Proposed Turbine Layout
- ◆ Species Observation



Drawing Title	
Waterbird Distribution and Abundance Survey Grey Wagtail Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 11
Scale	Date
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Survey Area
-  Flight Observation






Drawing Title	
Breeding Walkover Survey Grey Wagtail Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 12
Scale	Date
1:30,000	30.01.26
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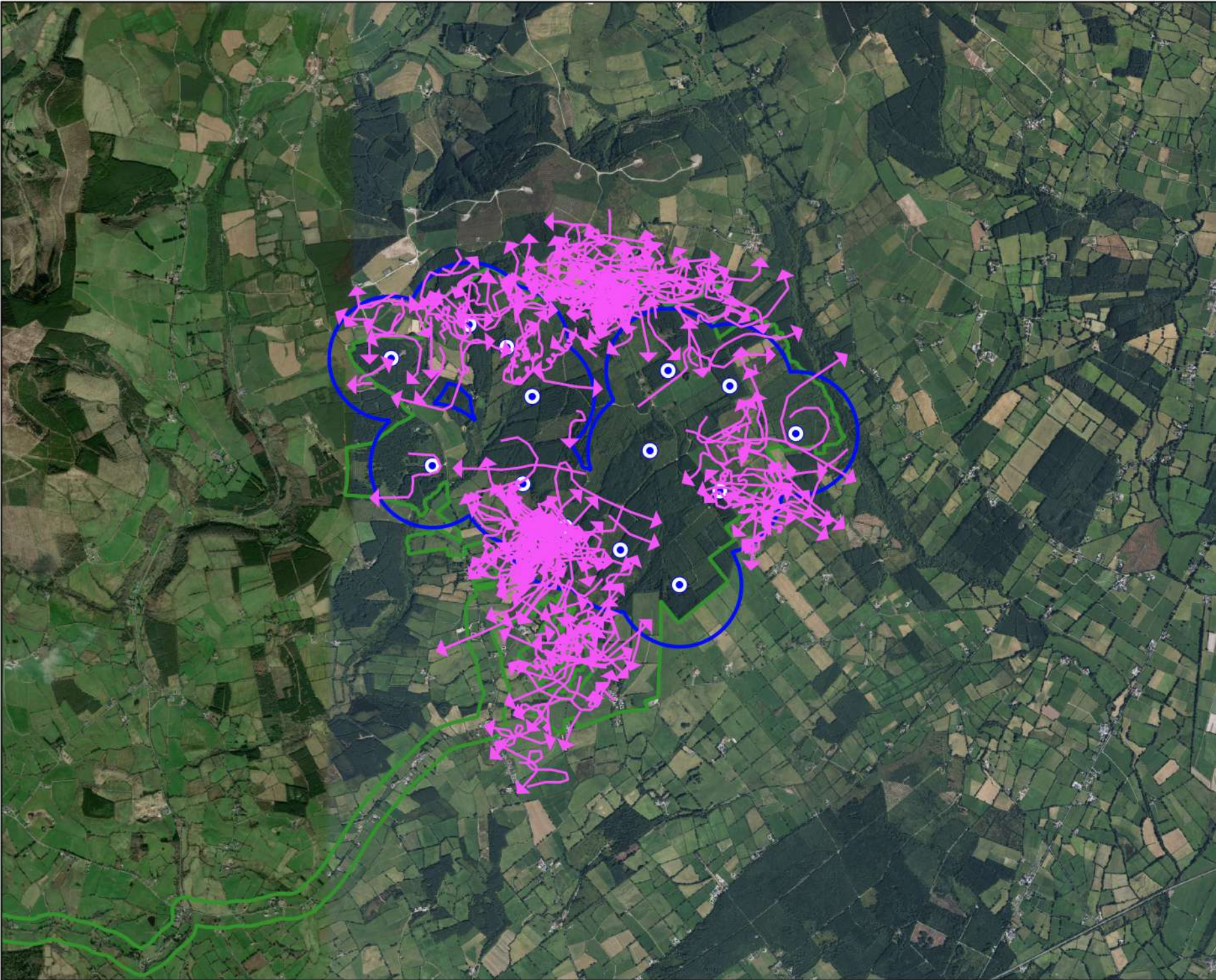
Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation








Drawing Title	
Grey Wagtail Incidental Records	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 14
Scale	Date
1:20,000	30.01.26
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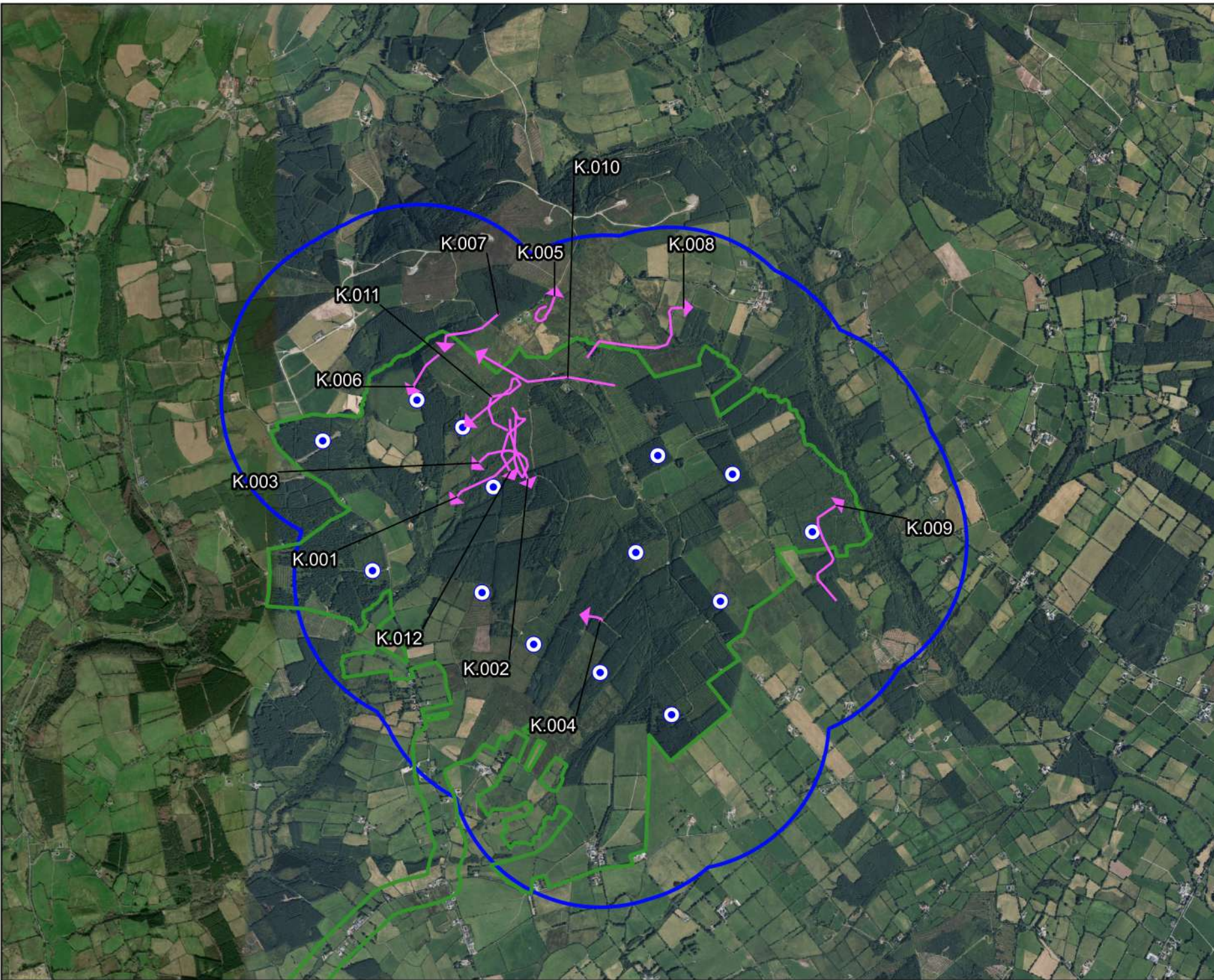
Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  500m Buffer of Proposed Turbine Layout
-  Flight Observation
-  Non-Flight Observation






Drawing Title	
Vantage Point Survey Kestrel Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 15
Scale	Date
1:40,000	30.01.26
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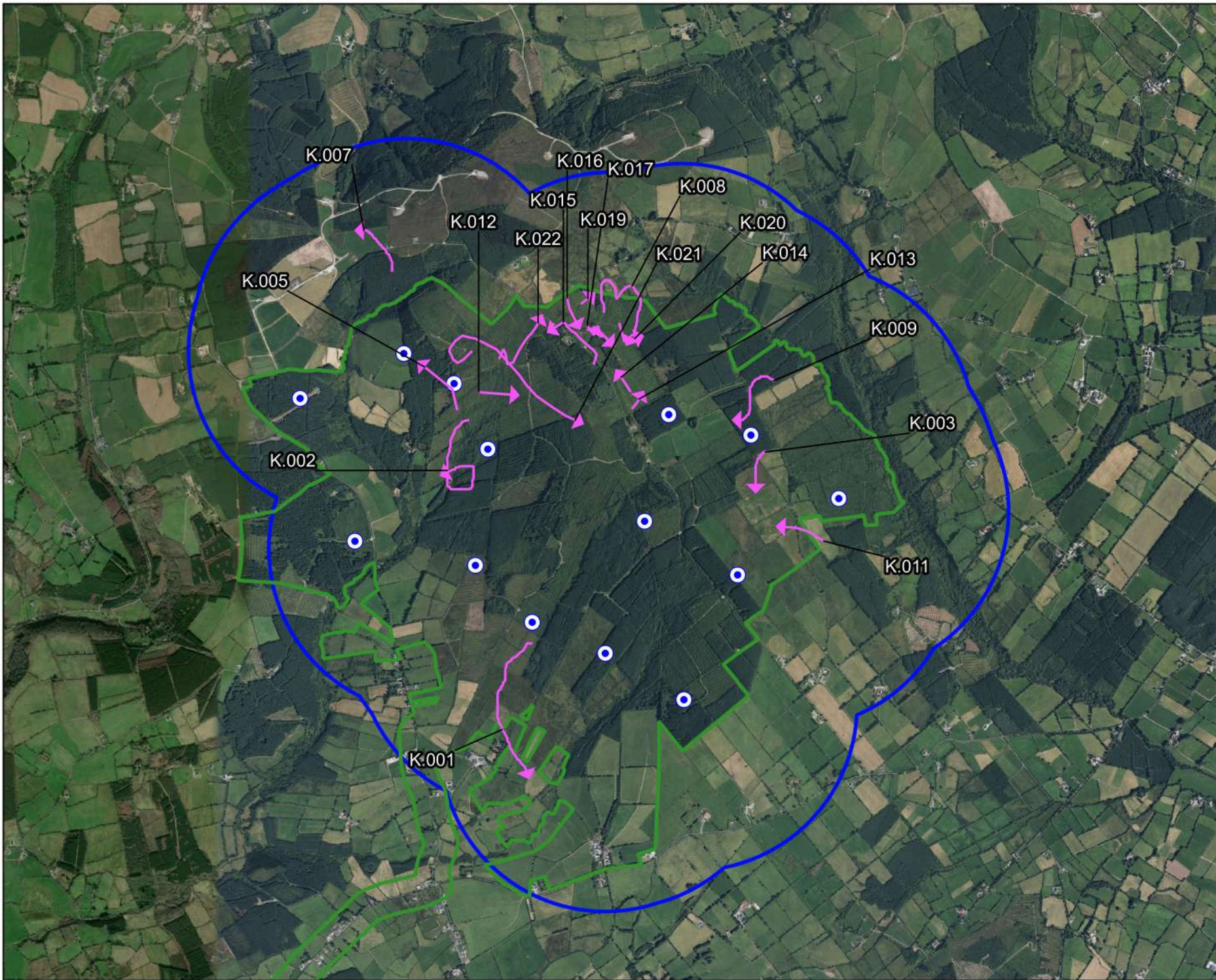


Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Survey Area
-  Flight Observation



Drawing Title	
Winter Walkover Survey Kestrel Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 16
Scale	Date
1:33,000	30.01.26
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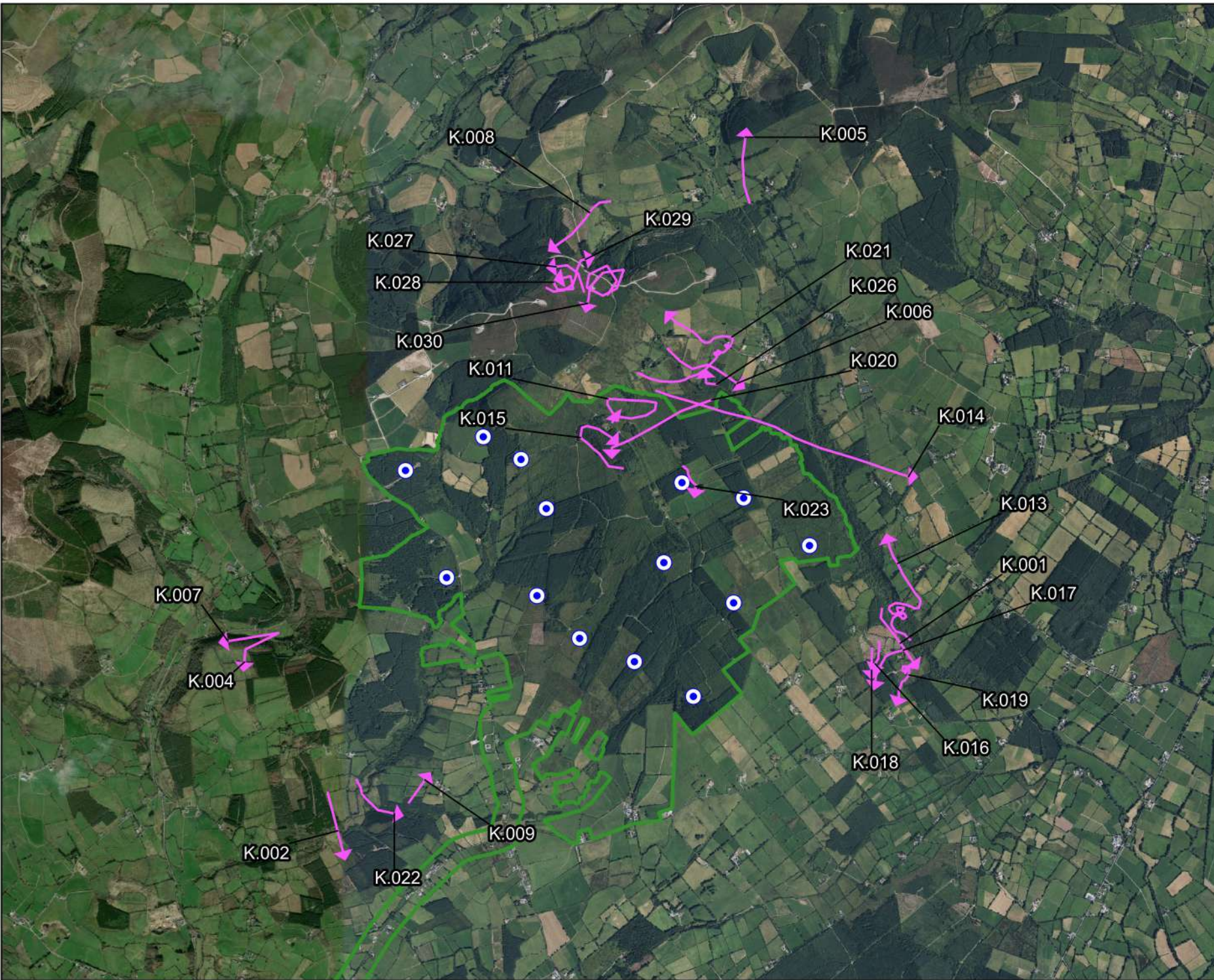


Map Legend




- Proposed Development
- Proposed Turbine Layout
- Survey Area
- Flight Observation



Drawing Title	
Breeding Walkover Survey Kestrel Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 17
Scale	Date
1:30,000	30.01.26
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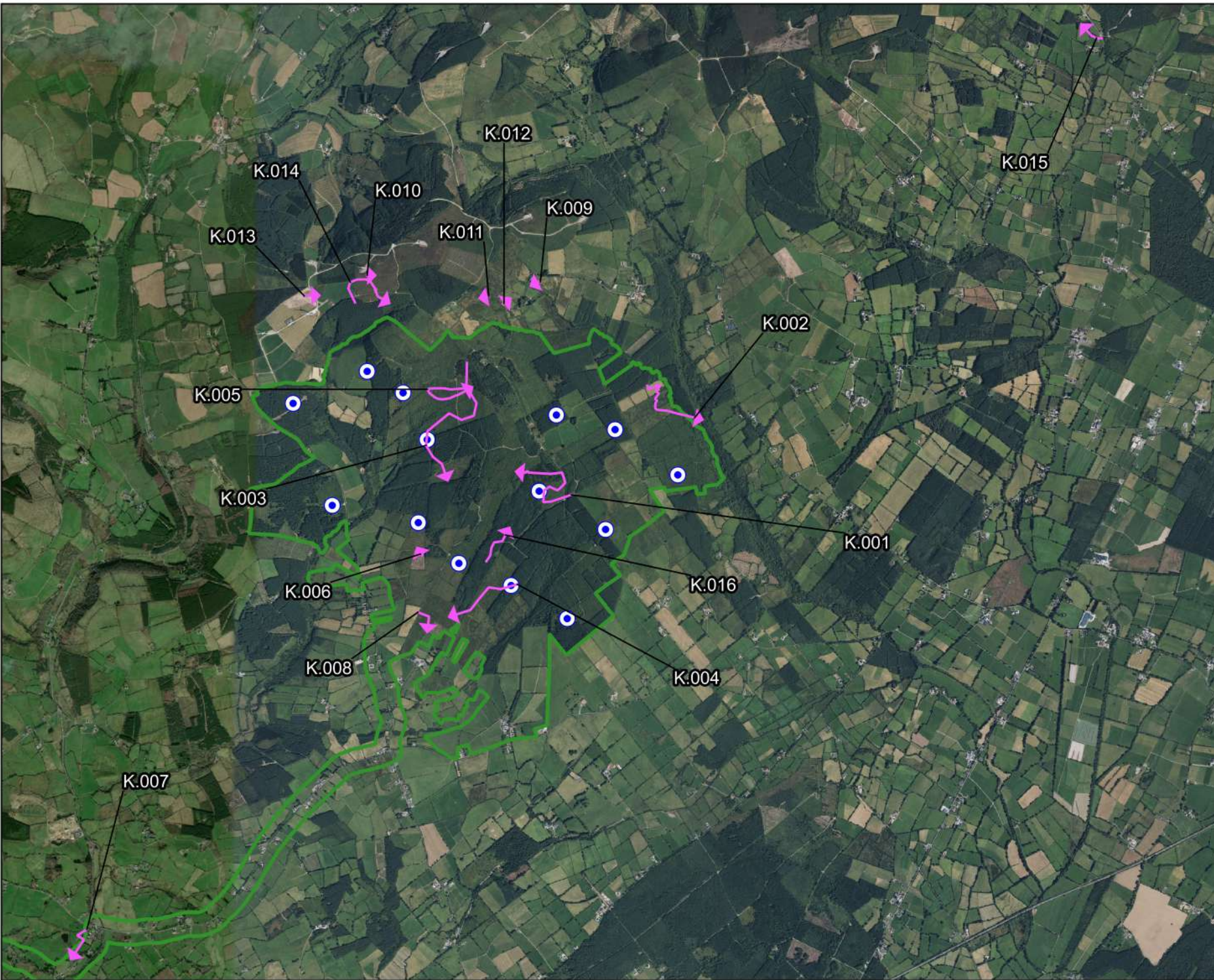


Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Breeding Raptor Survey Kestrel Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 18
Scale	Date
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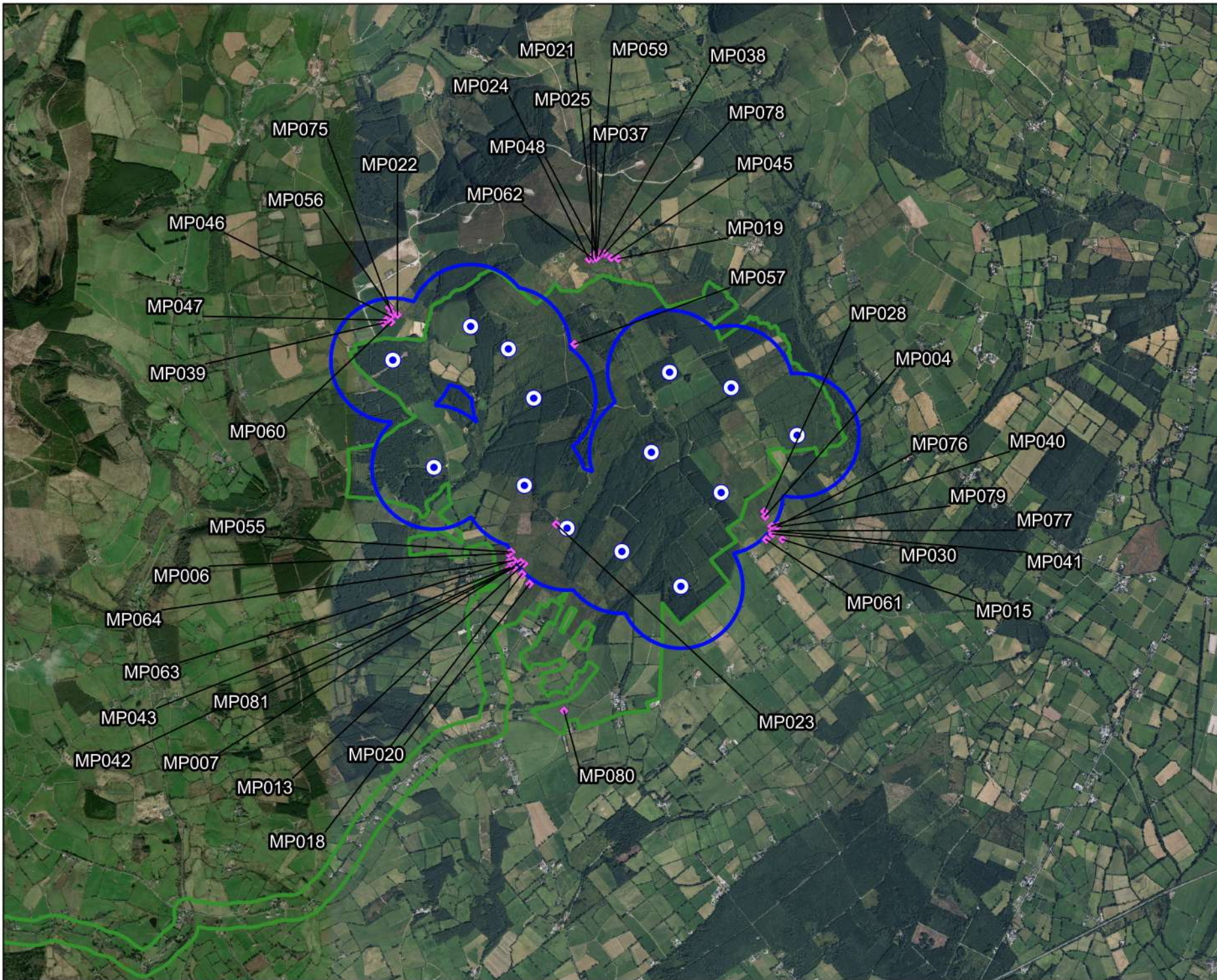


Map Legend



- Proposed Development
- Proposed Turbine Layout
- Flight Observation



Drawing Title	
Kestrel Incidental Records	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 19
Scale	Date
1:42,000	30.01.26
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  500m Buffer of Proposed Turbine Layout
-  Non-Flight Observation



Drawing Title

Vantage Point Survey
Meadow Pipit Observations

Project Title

Carrow Wind Farm

Drawn By

NL

Checked By

PM

Project No.

231102

Drawing No.

Fig. 7 - 4 - 20

Scale

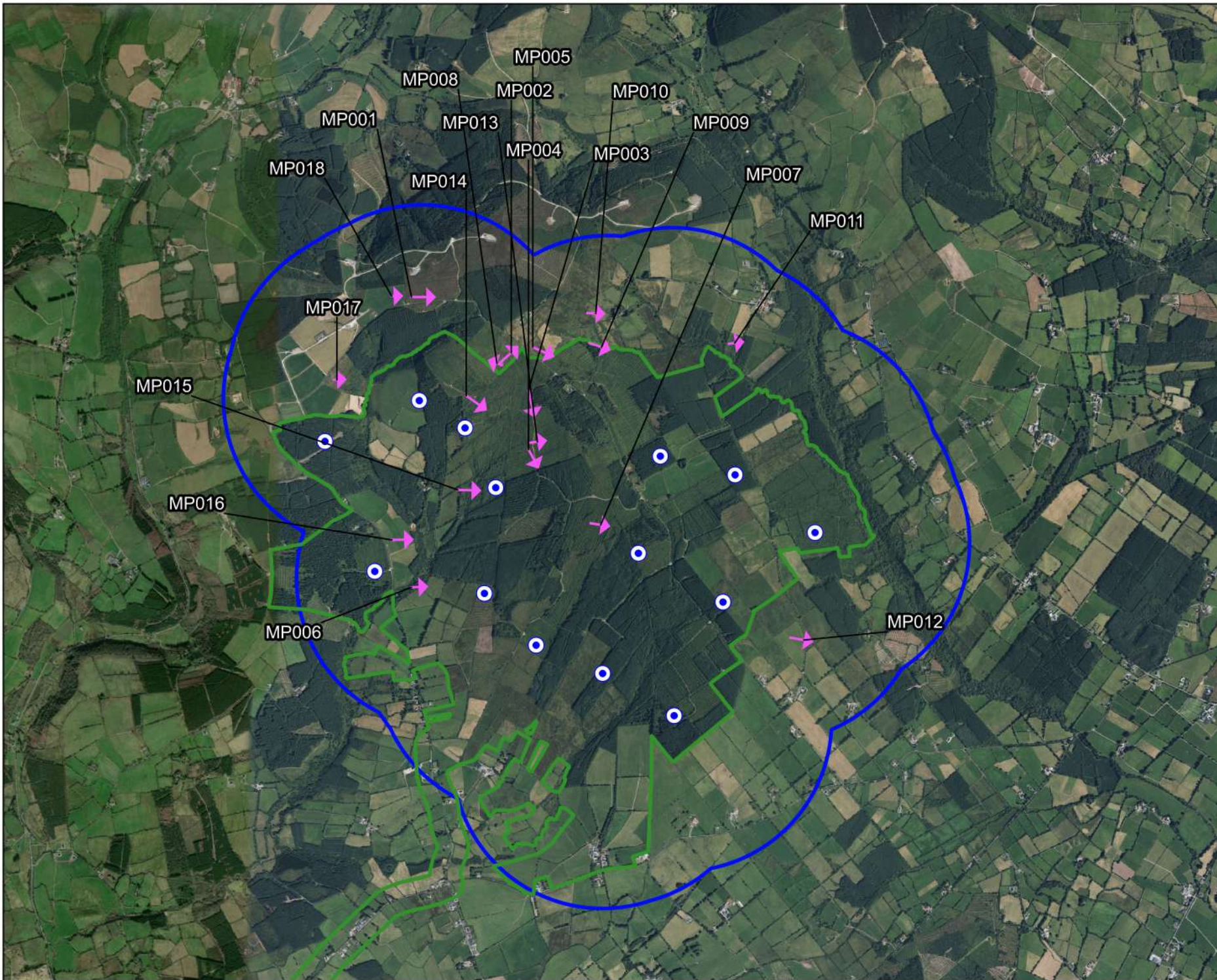
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Map Legend

- Proposed Development
- Proposed Turbine Layout
- Survey Area
- ➔ Flight Observation



Drawing Title

Winter Walkover Survey
Meadow Pipit Observations

Project Title

Carrow Wind Farm

Drawn By

NL

Checked By

PM

Project No.

231102

Drawing No.

Fig. 7 - 4 - 21

Scale

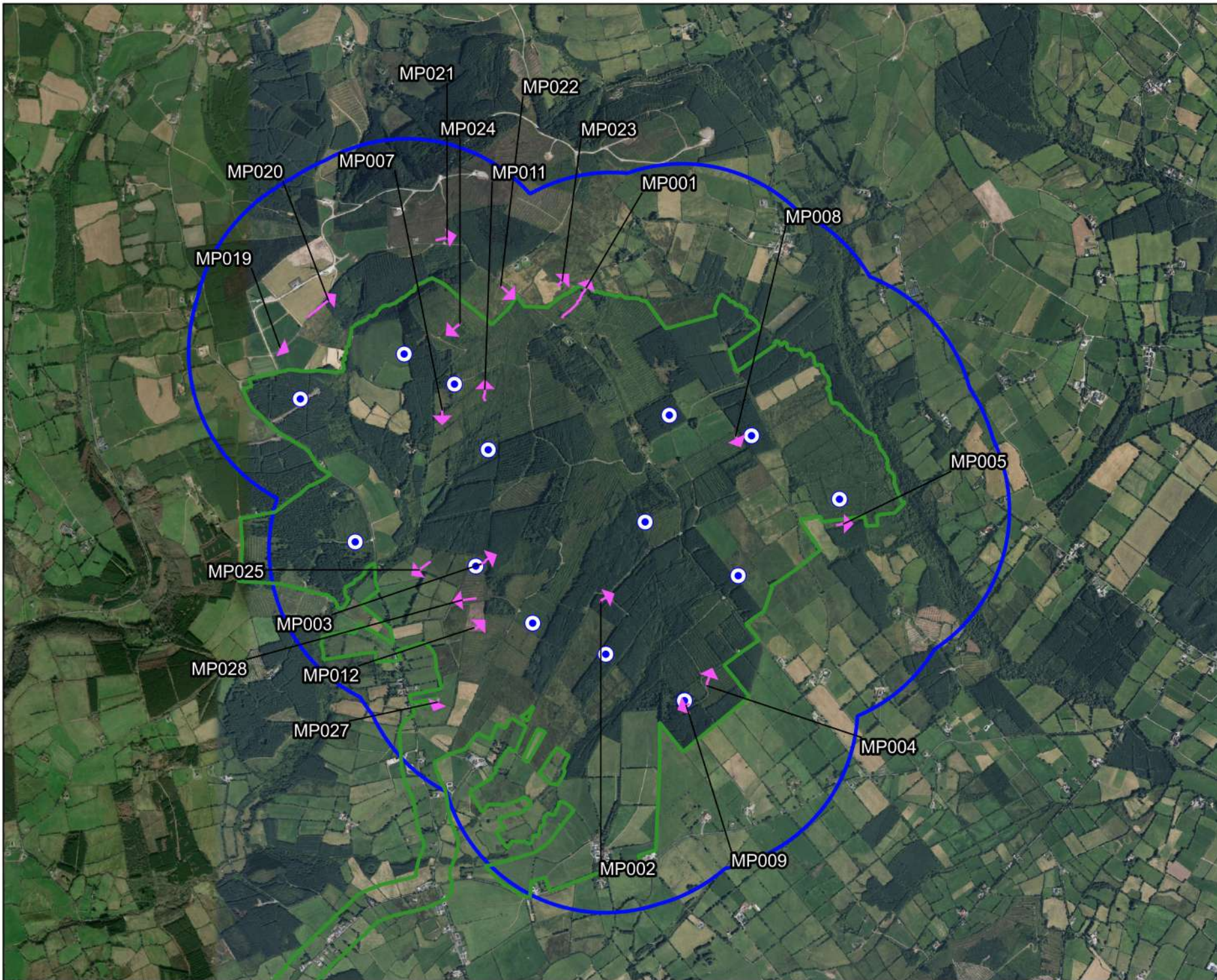
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Survey Area
-  Flight Observation



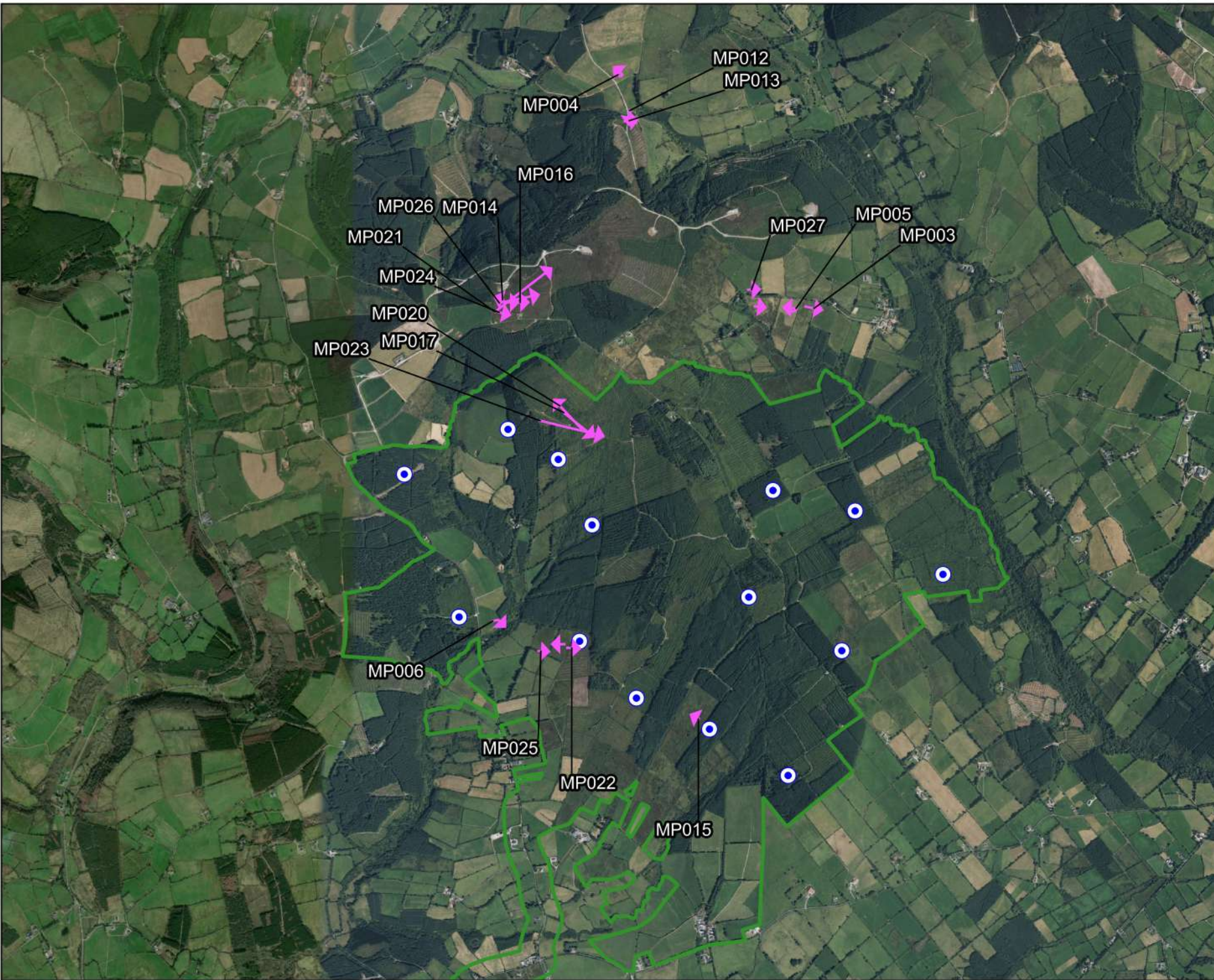
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Drawing Title
**Breeding Walkover Survey
 Meadow Pipit Observations**




Project Title
Carrow Wind Farm

Drawn By NL	Checked By PM
Project No. 231102	Drawing No. Fig. 7 - 4 - 22
Scale 1:30,000	Date 30.01.26

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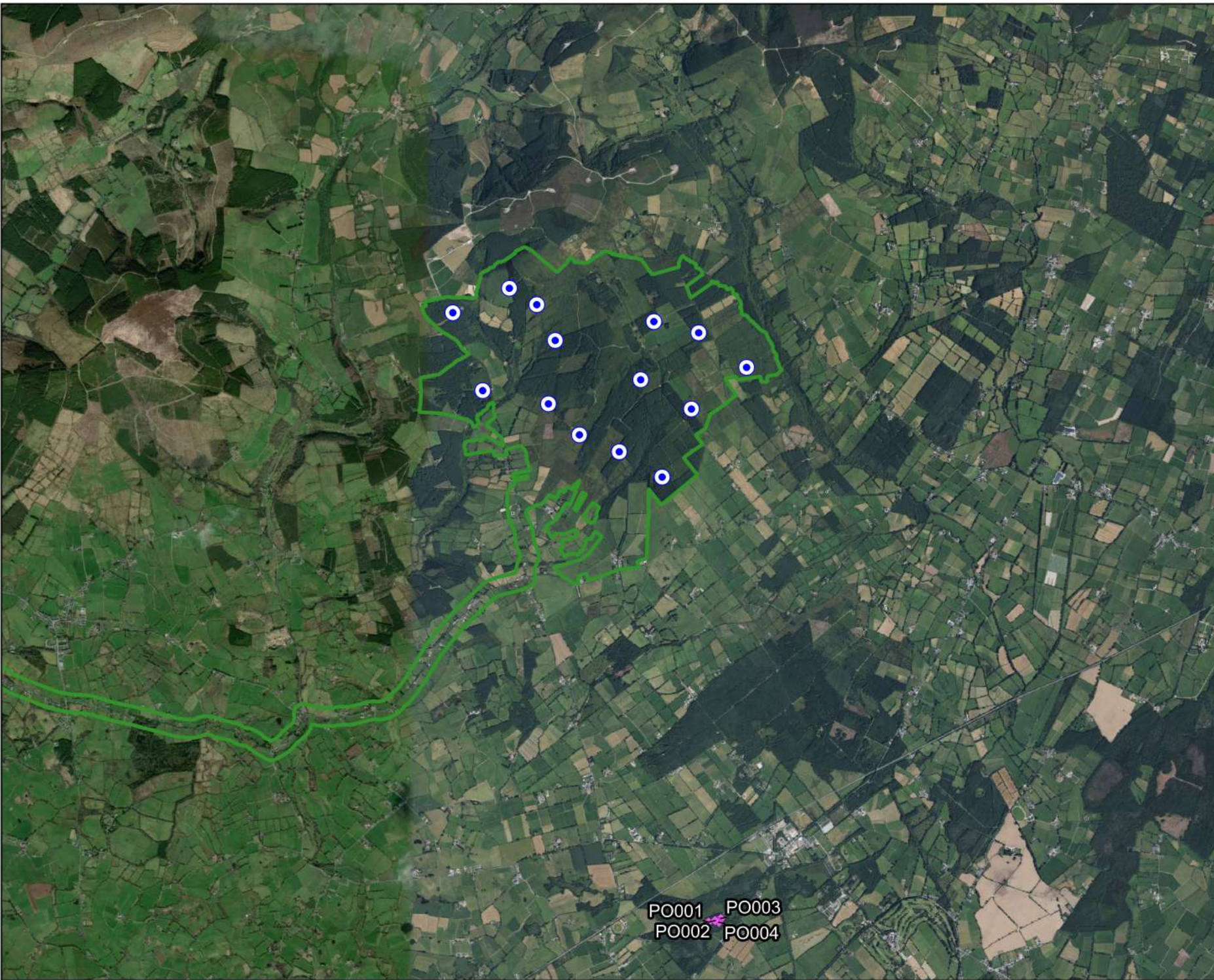


Map Legend




-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Meadow Pipit Incidental Records	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 23
Scale	Date
1:30,000	30.01.26
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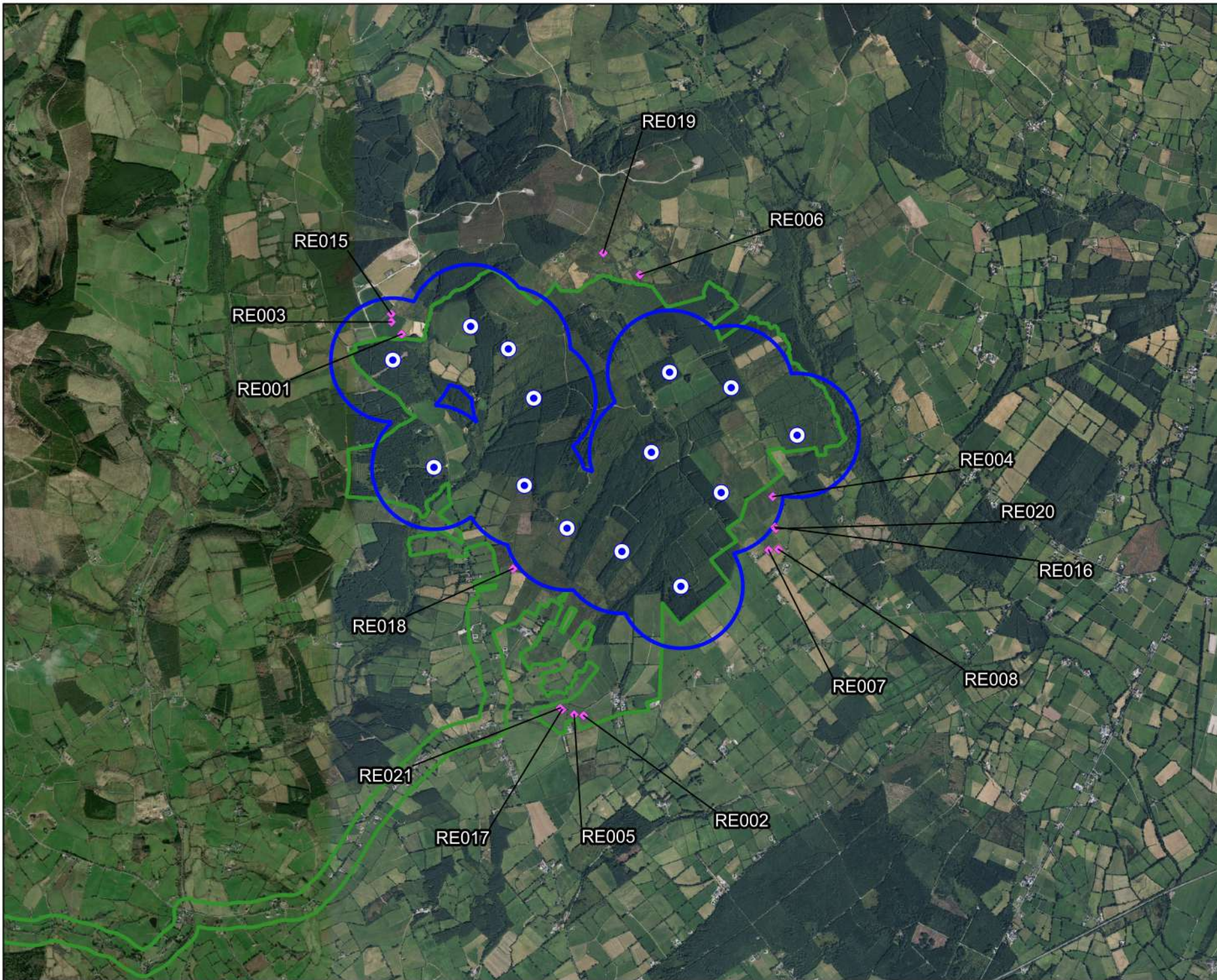
Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Species Observation



Drawing Title	
Waterbird Distribution and Abundance Survey Pochard Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 24
Scale	Date
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PO001 PO003
PO002 PO004



Map Legend

- Proposed Development
- Proposed Turbine Layout
- 500m Buffer of Proposed Turbine Layout
- ◆ Non-Flight Observation



Drawing Title

Vantage Point Survey
Redwing Observations

Project Title

Carrow Wind Farm

Drawn By

NL

Checked By

PM

Project No.

231102

Drawing No.

Fig. 7 - 4 - 25

Scale

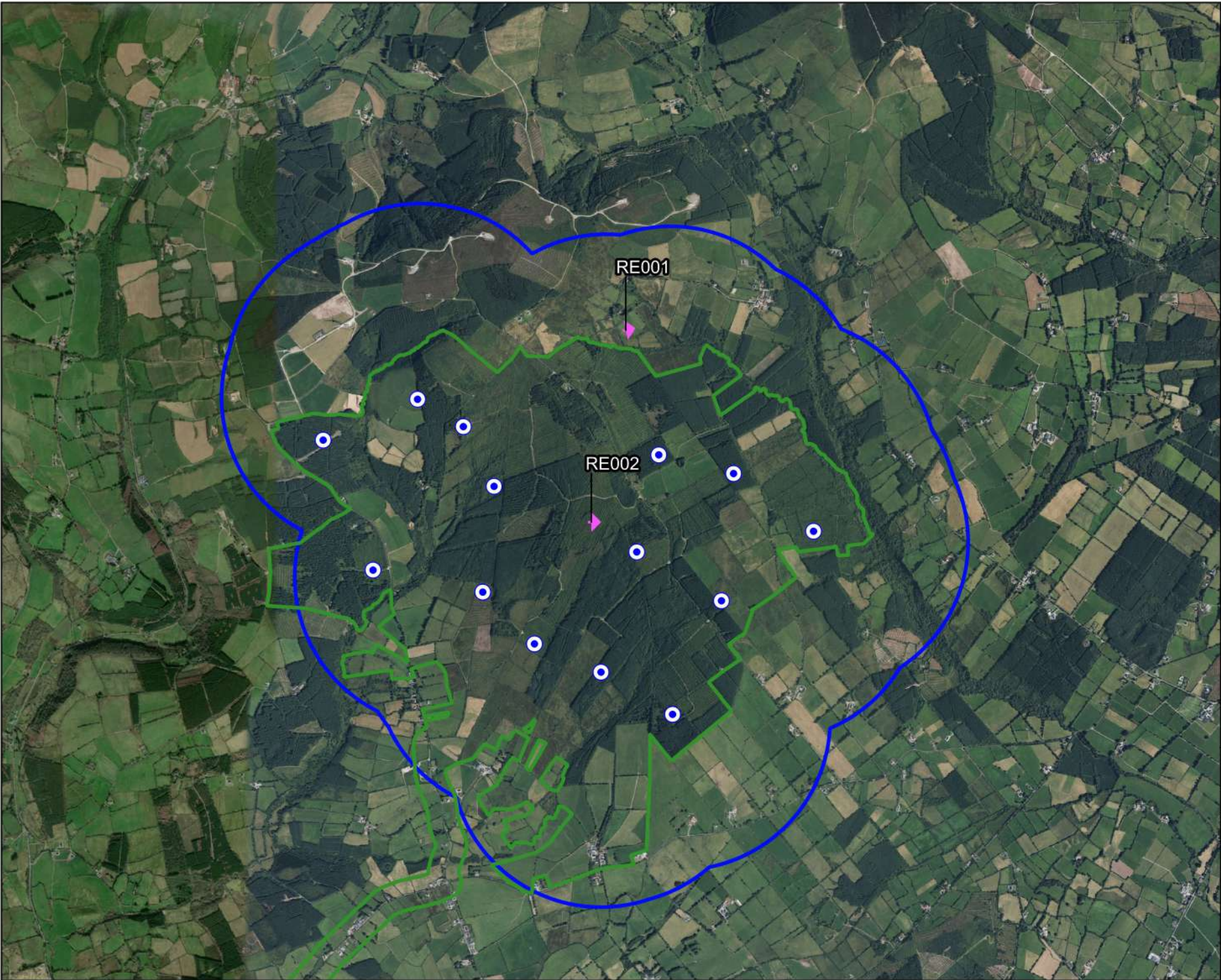
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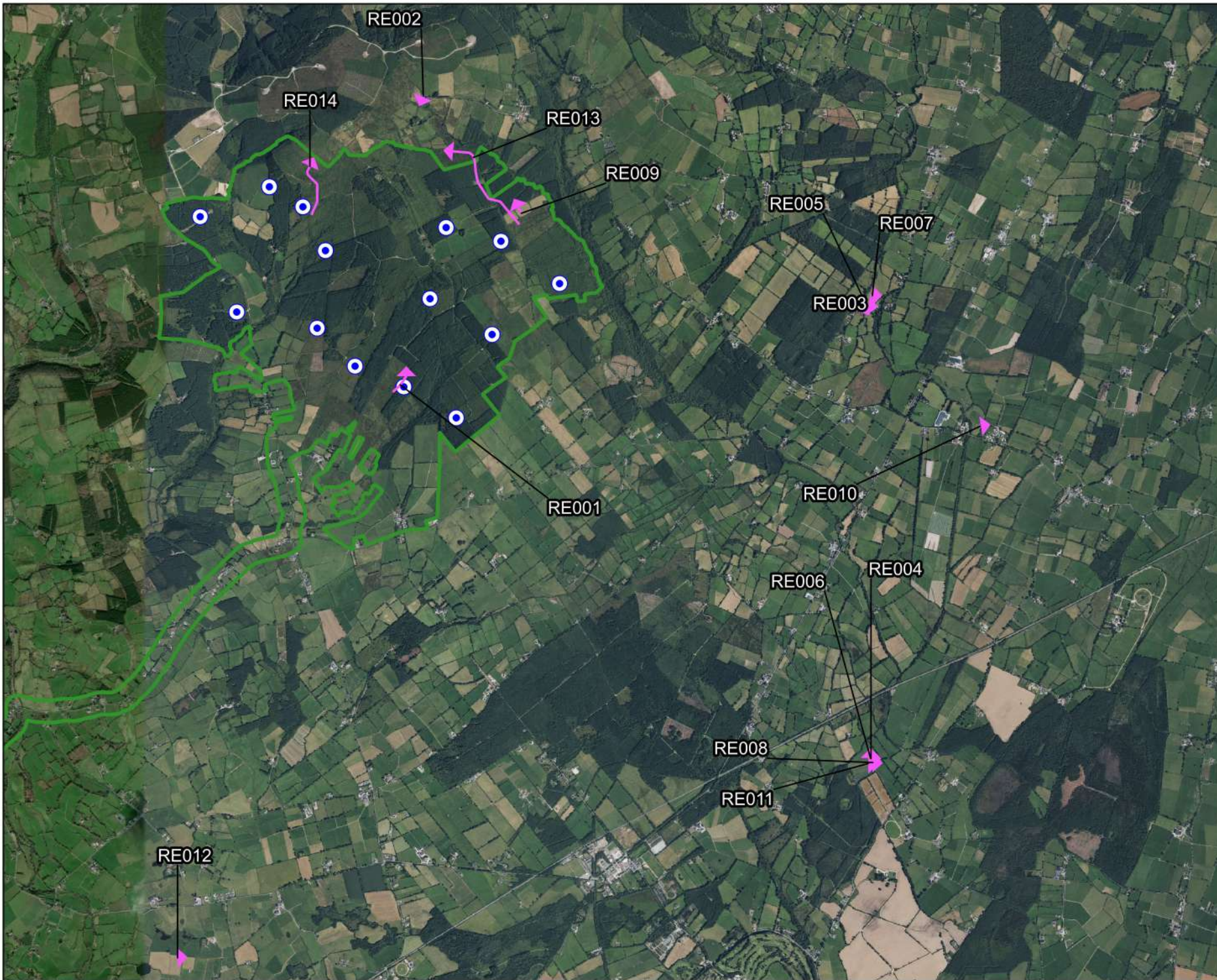


Map Legend




- Proposed Development
- Proposed Turbine Layout
- Survey Area
- Flight Observation



Drawing Title	
Winter Walkover Survey Redwing Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 26
Scale	Date
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title

Redwing
Incidental Records

Project Title

Carrow Wind Farm

Drawn By

NL

Checked By

PM

Project No.

231102

Drawing No.

Fig. 7 - 4 - 27

Scale

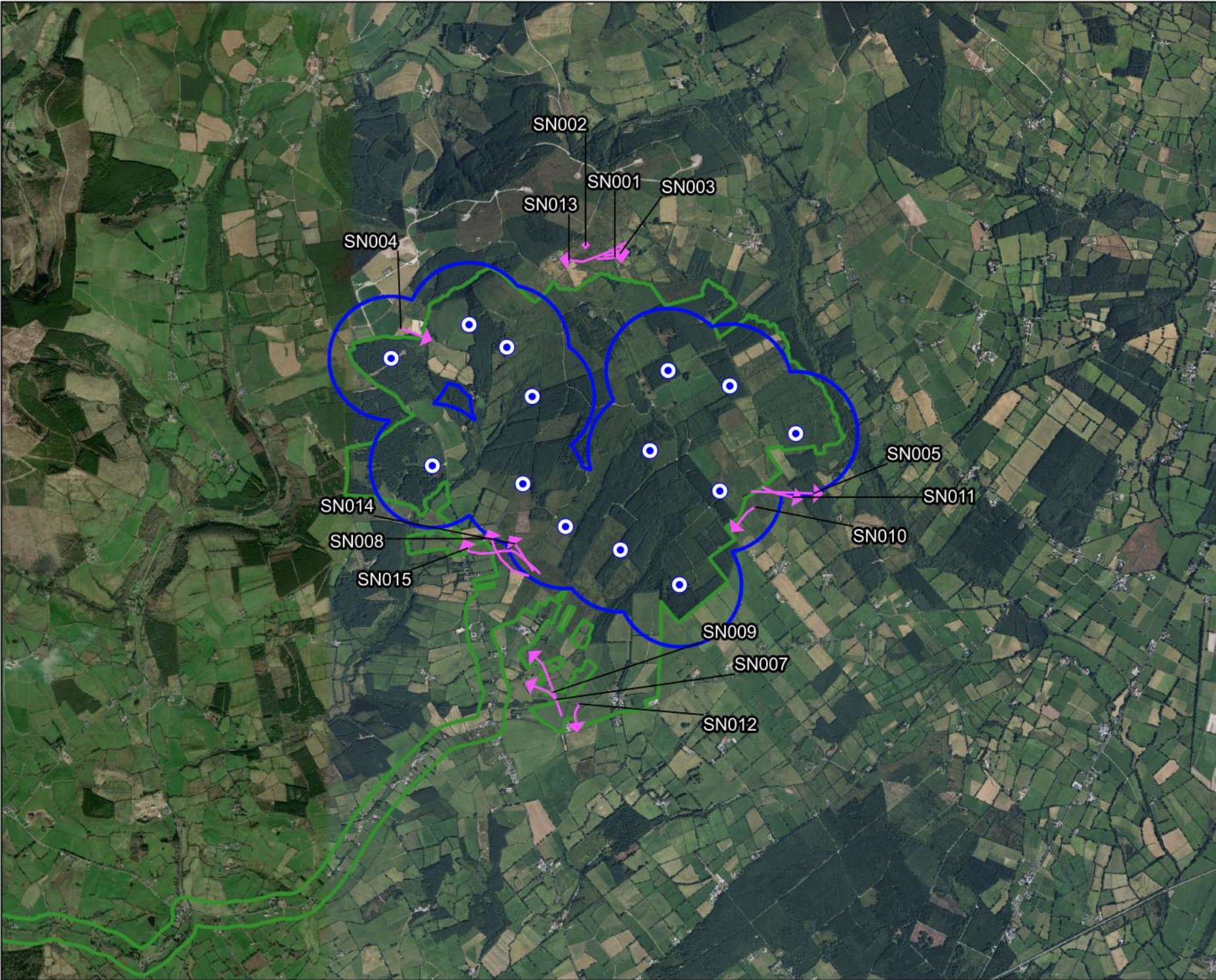
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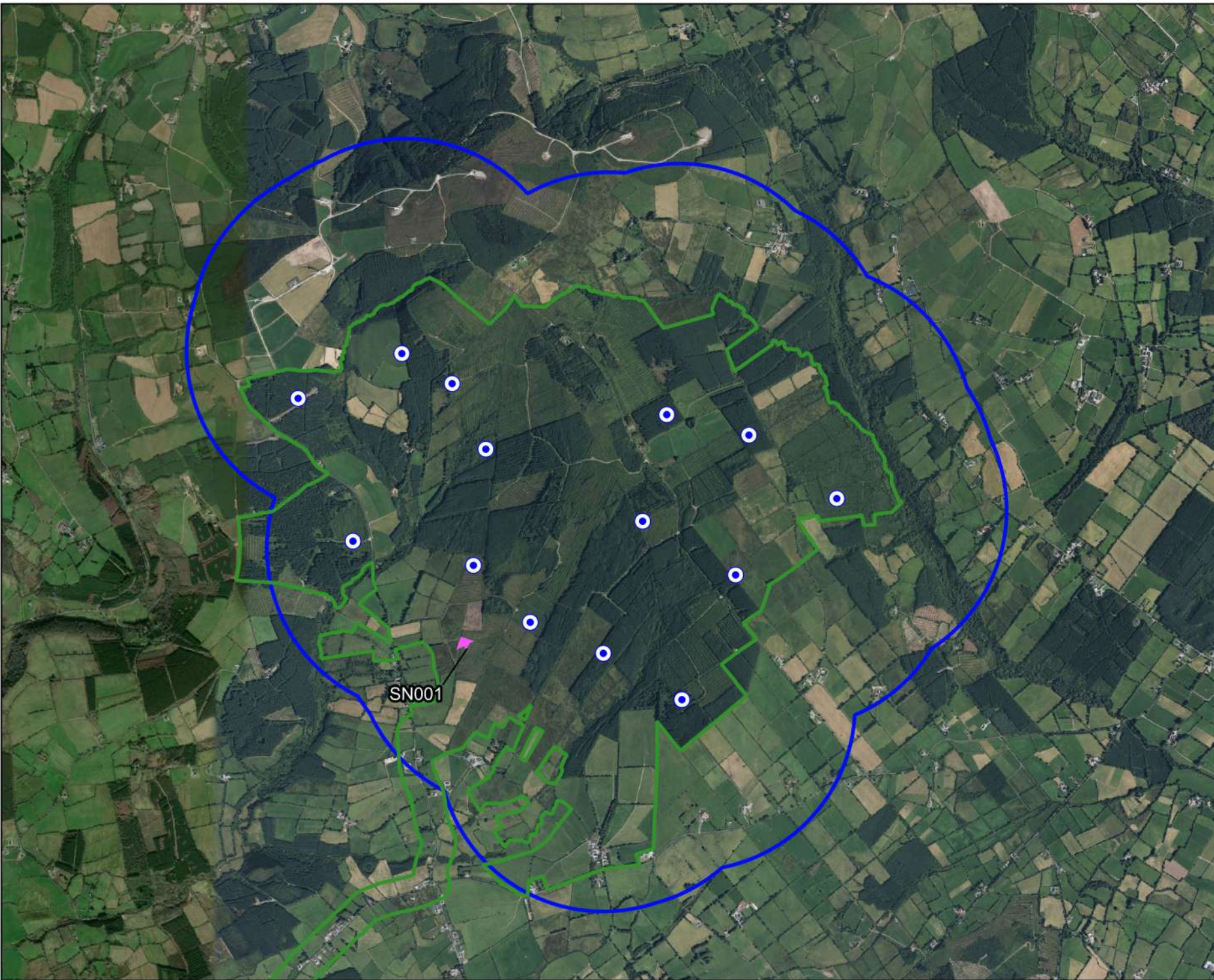
Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  500m Buffer of Proposed Turbine Layout
-  Flight Observation
-  Non-Flight Observation



Drawing Title	
Vantage Point Survey Snipe Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 28
Scale	Date
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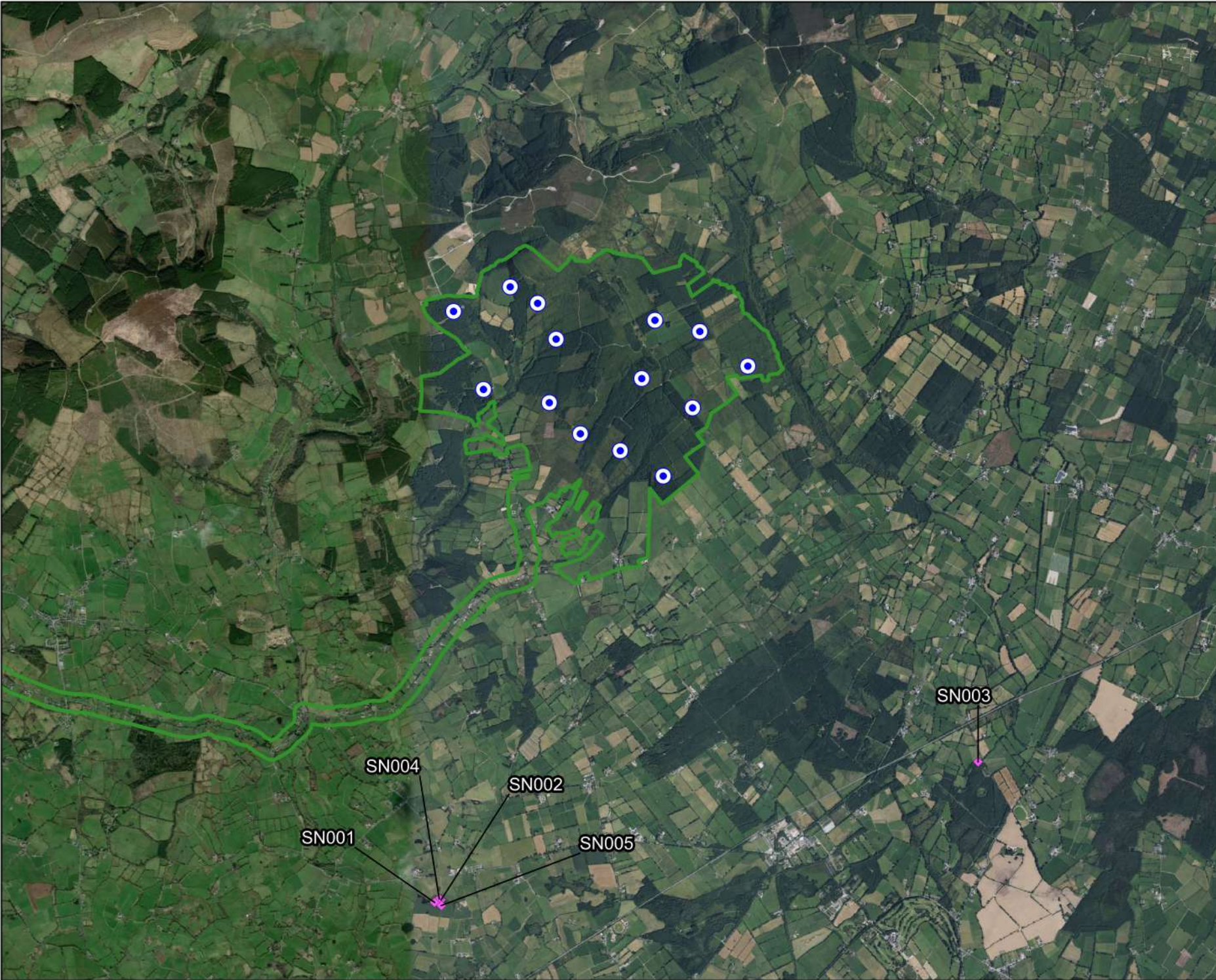


Map Legend




- Proposed Development
- Proposed Turbine Layout
- Survey Area
- Flight Observation



Drawing Title Breeding Walkover Survey Snipe Observations	
Project Title Carrow Wind Farm	
Drawn By NL	Checked By PM
Project No. 231102	Drawing No. Fig. 7 - 4 - 29
Scale 1:30,000	Date 30.01.26
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Map Legend




-  Proposed Development
-  Proposed Turbine Layout
-  Species Observation



Drawing Title	
Waterbird Distribution and Abundance Survey Snipe Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 30
Scale	Date
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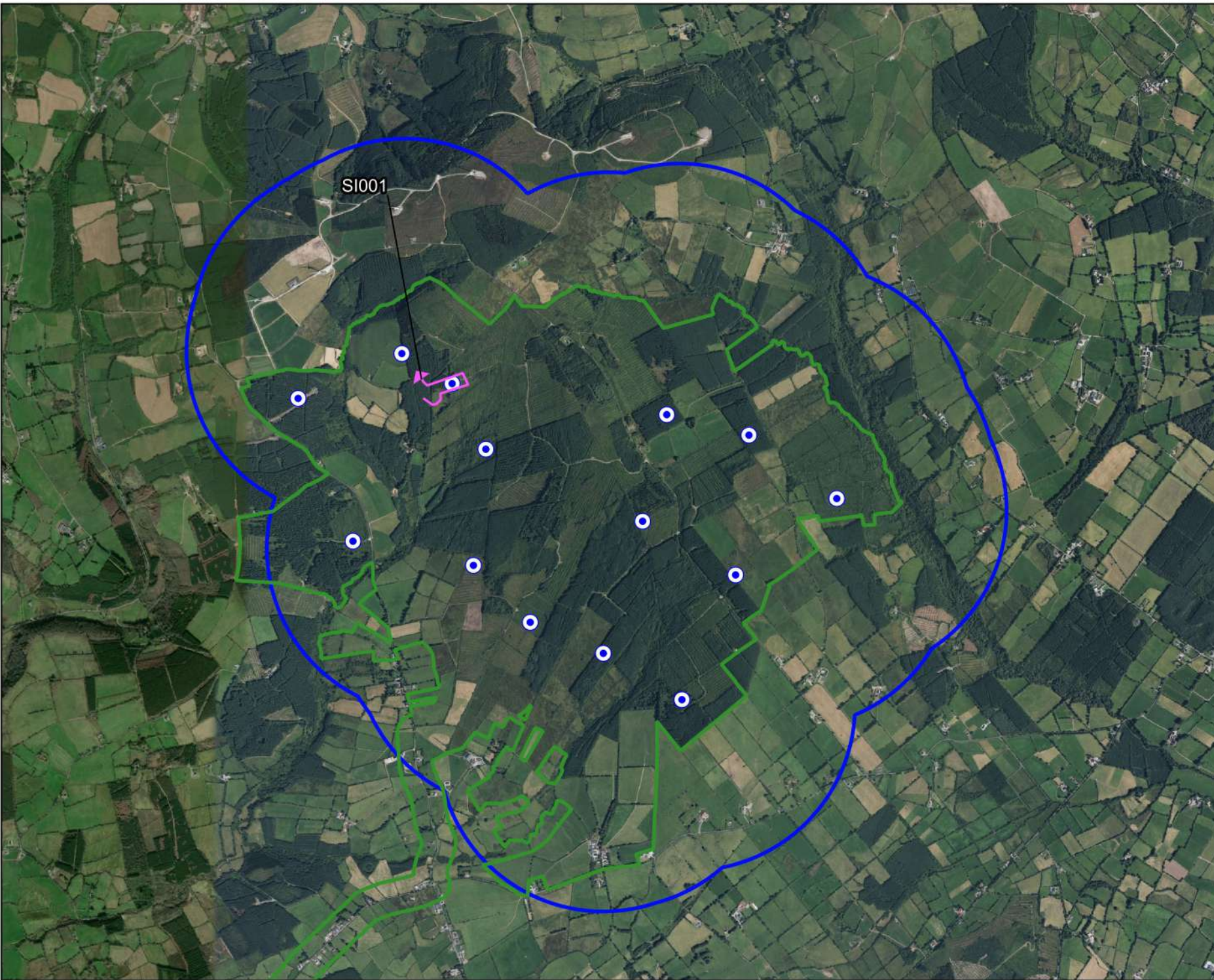
Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Snipe Incidental Records	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 31
Scale	Date
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Survey Area
-  Flight Observation



Drawing Title

**Breeding Walkover Survey
Swift Observations**

Project Title

Carrow Wind Farm




Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 32
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title

Swift
Incidental Records

Project Title

Carrow Wind Farm

Drawn By

NL

Checked By

PM

Project No.

231102

Drawing No.

Fig. 7 - 4 - 33

Scale

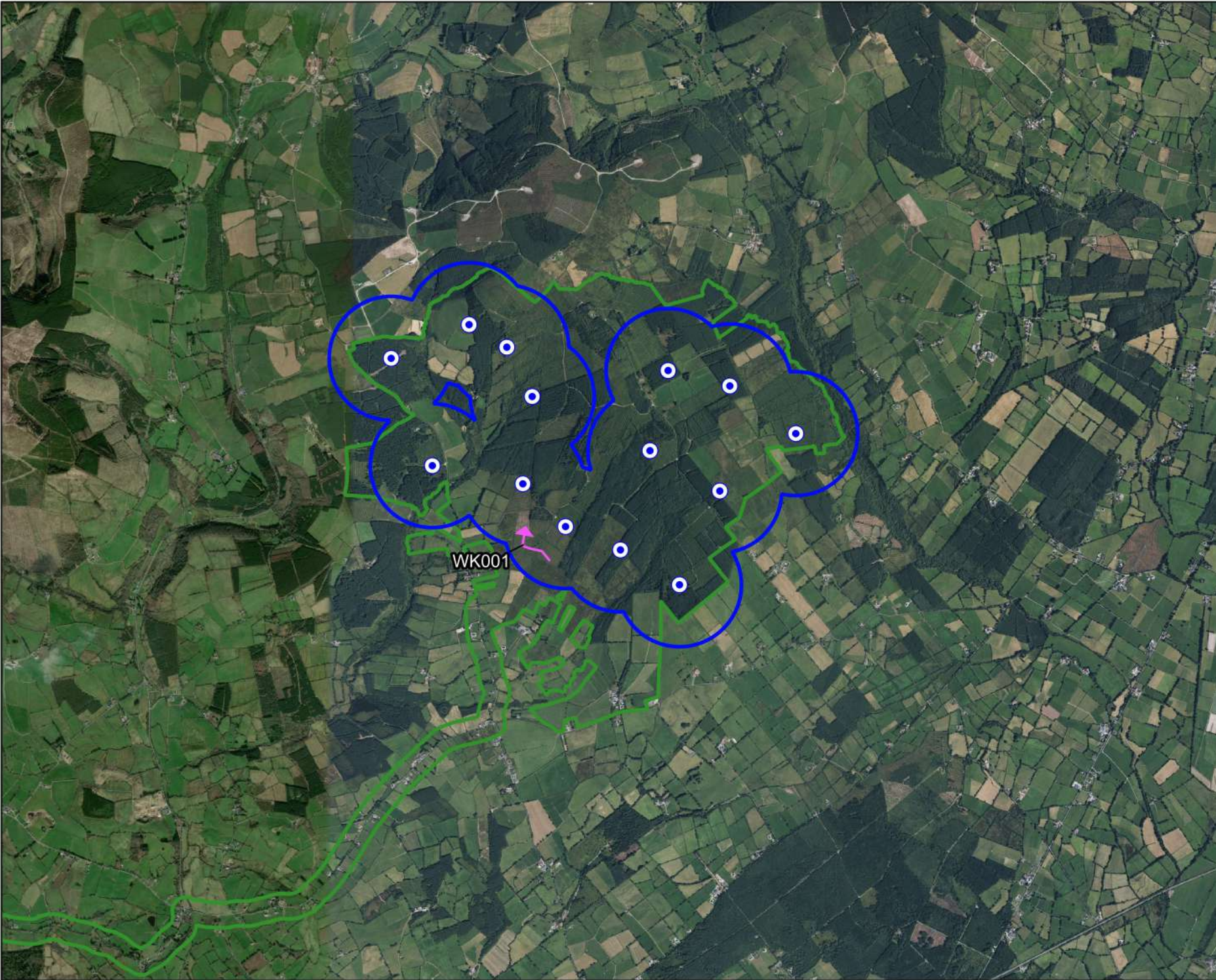
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Date





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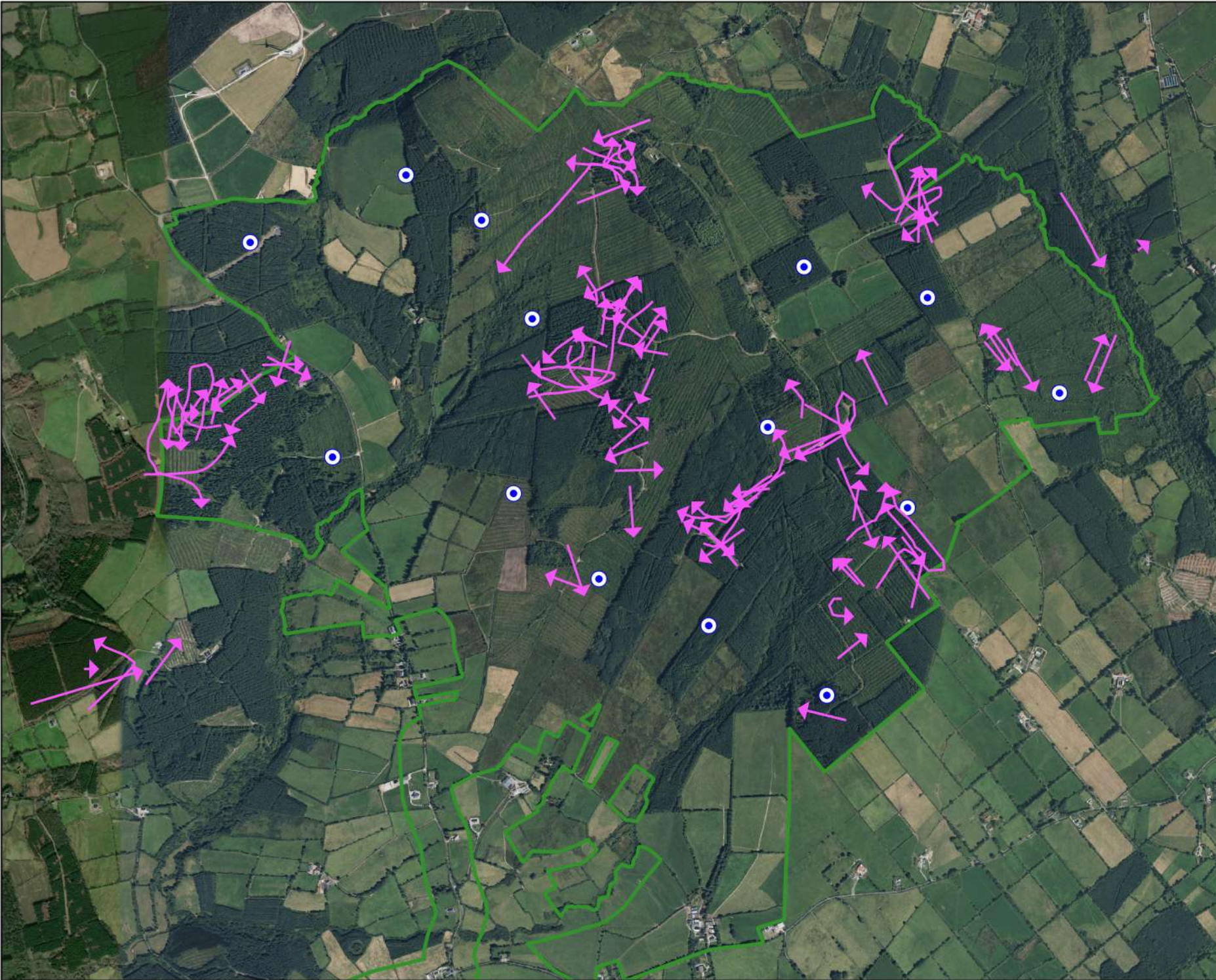
Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  500m Buffer of Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Vantage Point Survey Woodcock Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 34
Scale	Date
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Map Legend

- Proposed Development
- Proposed Turbine Layout
- Flight Observation



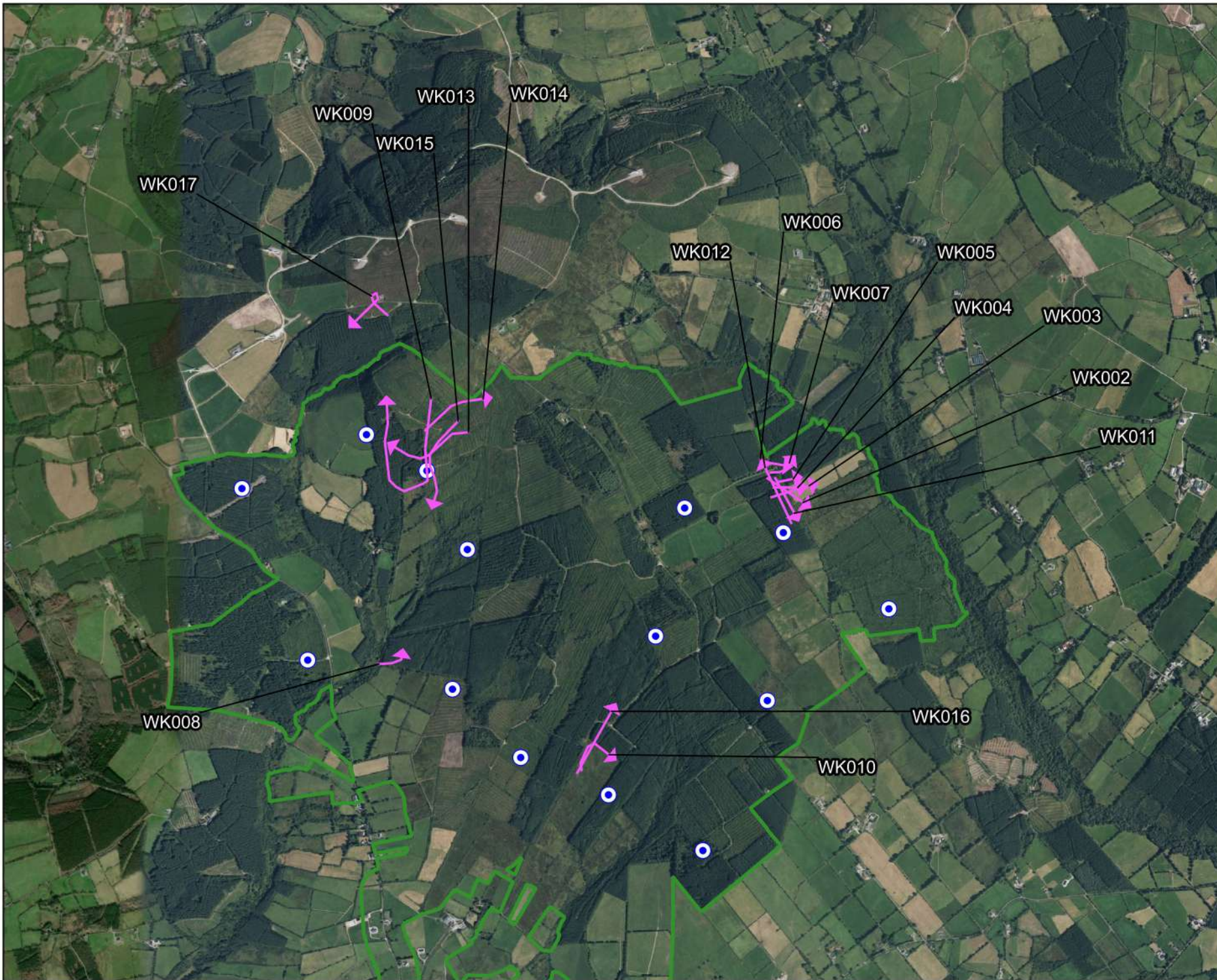
Drawing Title
**Breeding Woodcock Survey
 Woodcock Observations**

Project Title
Carrow Wind Farm

Drawn By NL	Checked By PM
Project No. 231102	Drawing No. Fig. 7 - 4 - 35
Scale 1:20,000	Date 30.01.26

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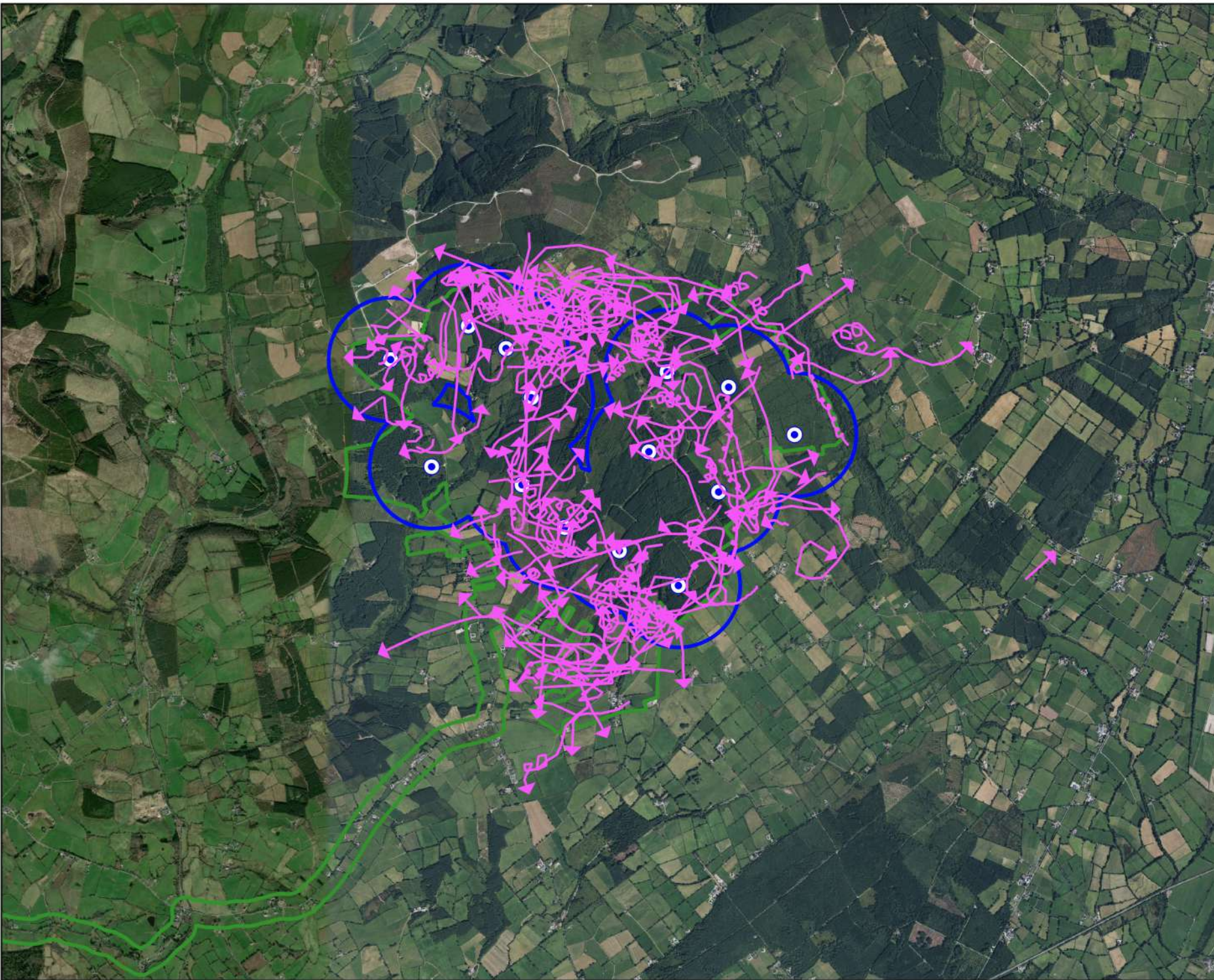


Map Legend

- Proposed Development
- Proposed Turbine Layout
- Flight Observation



Drawing Title	
Woodcock Incidental Records	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 36
Scale	Date
1:25,000	30.01.26
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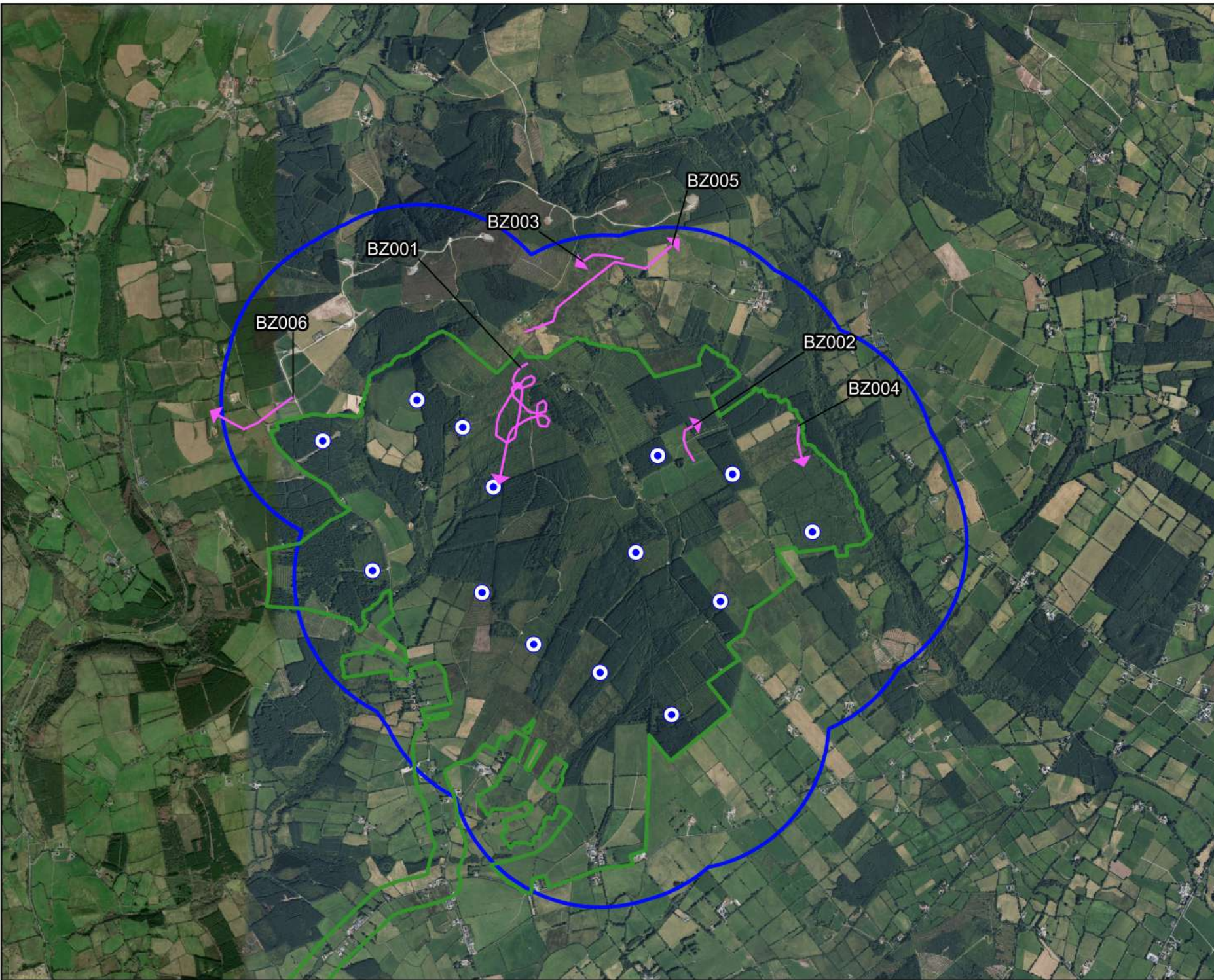


Map Legend

- Proposed Development
- Proposed Turbine Layout
- 500m Buffer of Proposed Turbine Layout
- Flight Observation
- ◆ Non-Flight Observation



Drawing Title	
Vantage Point Survey Buzzard Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 37
Scale	Date
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Map Legend

- Proposed Development
- Proposed Turbine Layout
- Survey Area
- Flight Observation



Drawing Title

Winter Walkover Survey
Buzzard Observations

Project Title

Carrow Wind Farm

Drawn By

NL

Checked By

PM

Project No.

231102

Drawing No.

Fig. 7 - 4 - 38

Scale

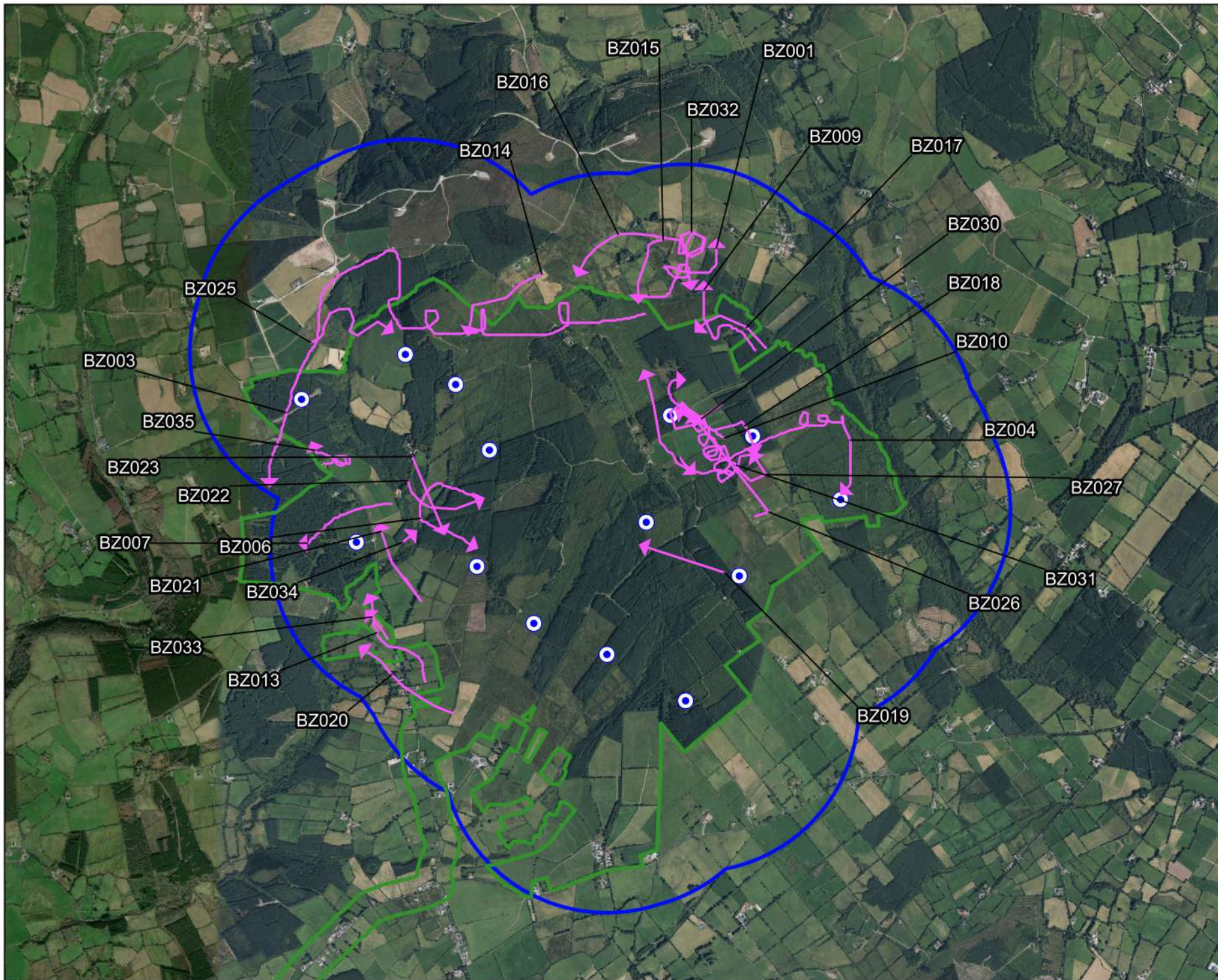
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Date

30.01.26



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Map Legend

- Proposed Development
- Proposed Turbine Layout
- Survey Area
- Flight Observation



Drawing Title

Breeding Walkover Survey
Buzzard Observations

Project Title

Carrow Wind Farm

Drawn By

NL

Checked By

PM

Project No.

231102

Drawing No.

Fig. 7 - 4 - 39

Scale

1:30,000

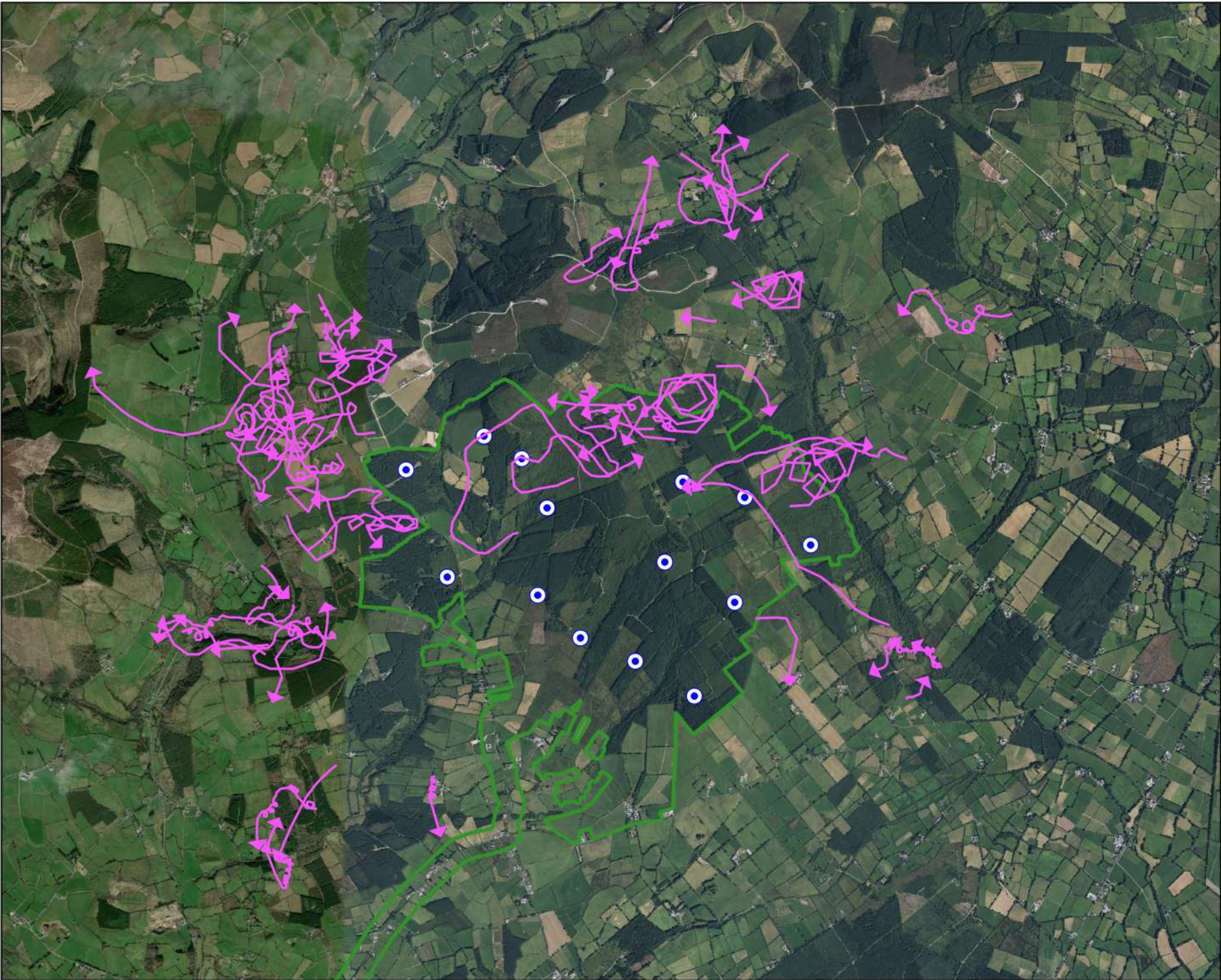
Date

30.01.26






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Map Legend

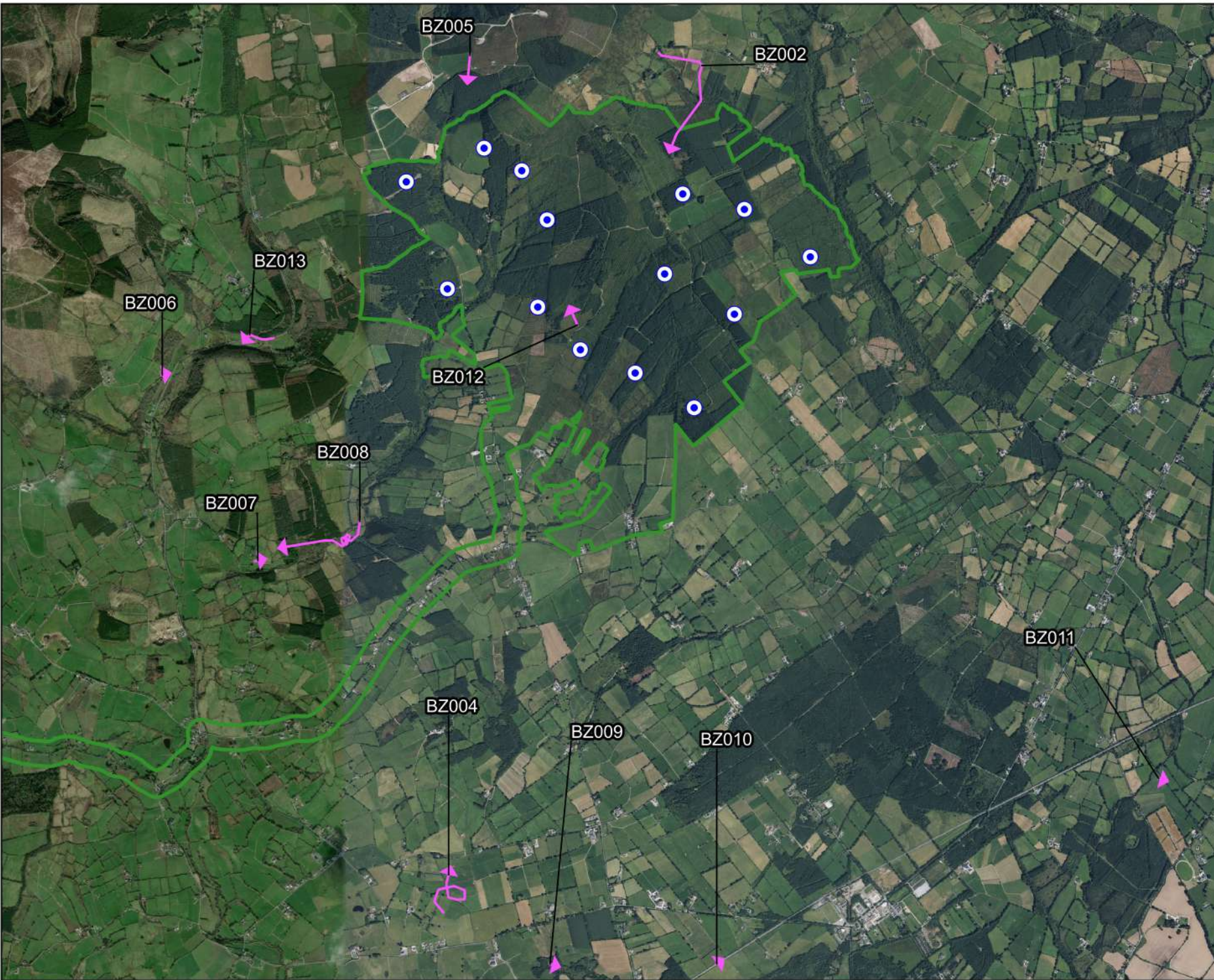
-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation






Drawing Title	
Breeding Raptor Survey Buzzard Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 40
Scale	Date
1:40,000	30.01.26

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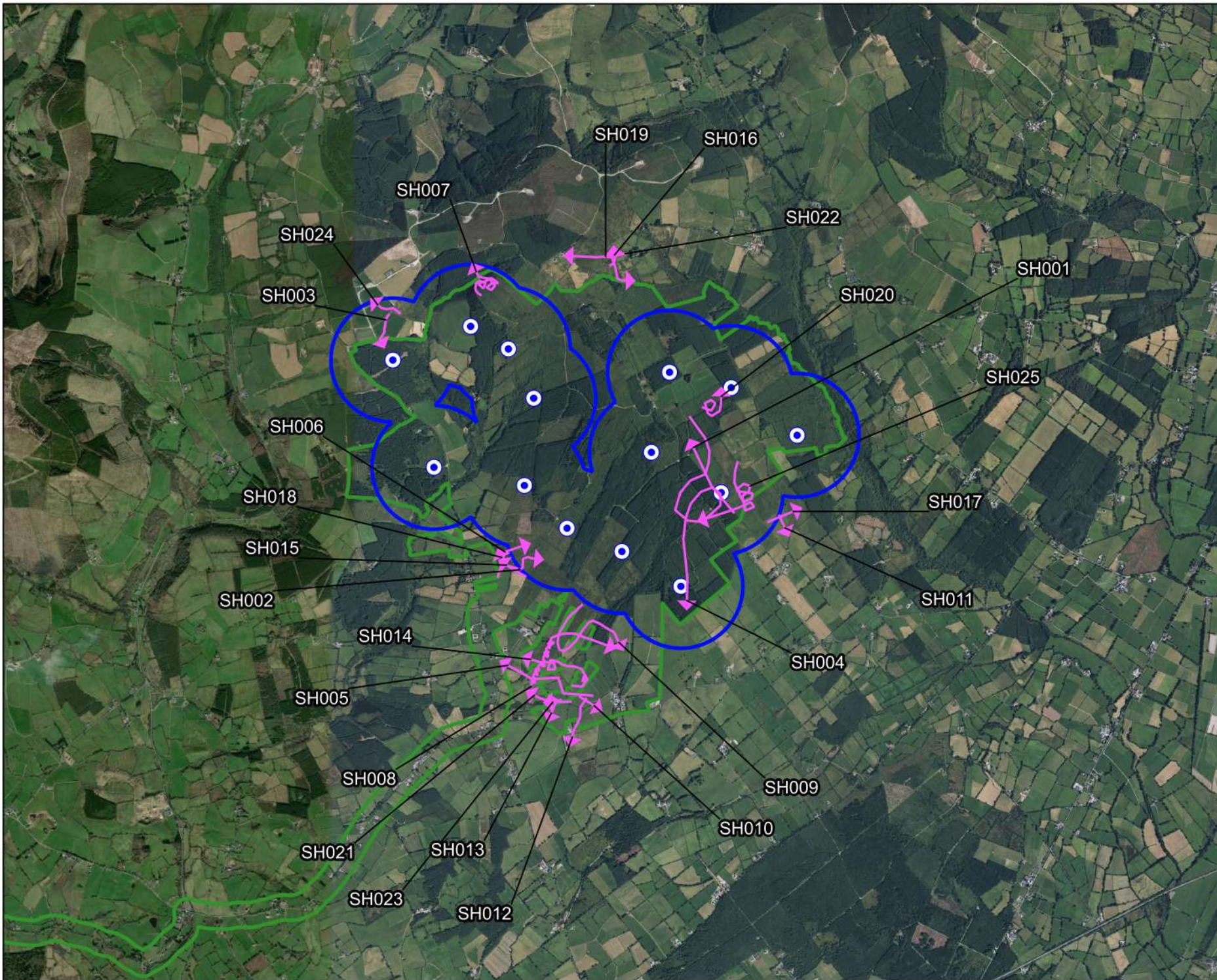


Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title		Buzzard Incidental Records	
Project Title		Carrow Wind Farm	
Drawn By	NL	Checked By	PM
Project No.	231102	Drawing No.	Fig. 7 - 4 - 41
Scale	1:40,000	Date	30.01.26
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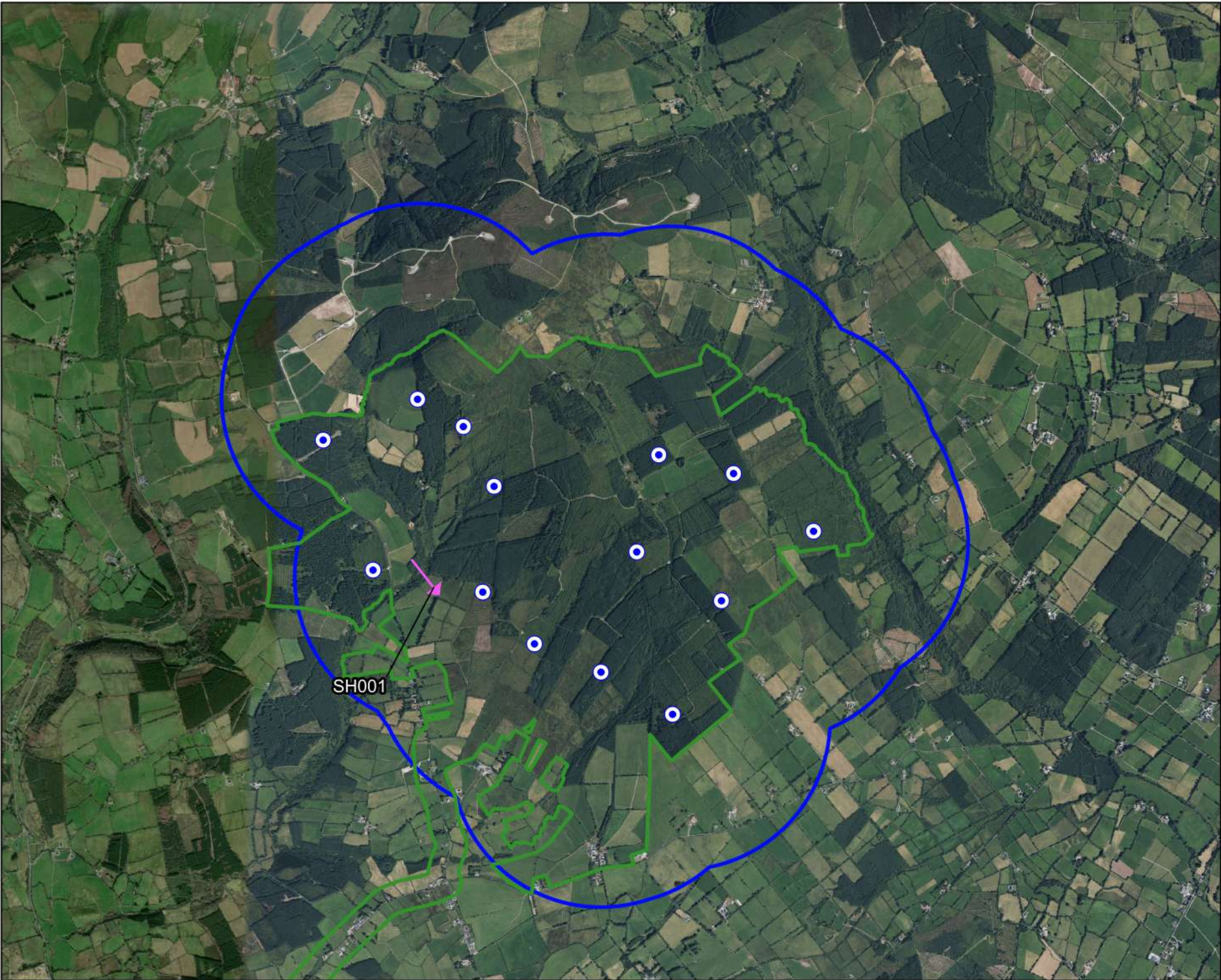
Map Legend

- Proposed Development
- Proposed Turbine Layout
- 500m Buffer of Proposed Turbine Layout
- Flight Observation







Drawing Title	
Vantage Point Survey Sparrowhawk Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 42
Scale	Date
1:40,000	30.01.26
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Map Legend




-  Proposed Development
-  Proposed Turbine Layout
-  Survey Area
-  Flight Observation



Drawing Title	
Winter Walkover Survey Sparrowhawk Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 43
Scale	Date
1:33,000	30.01.26
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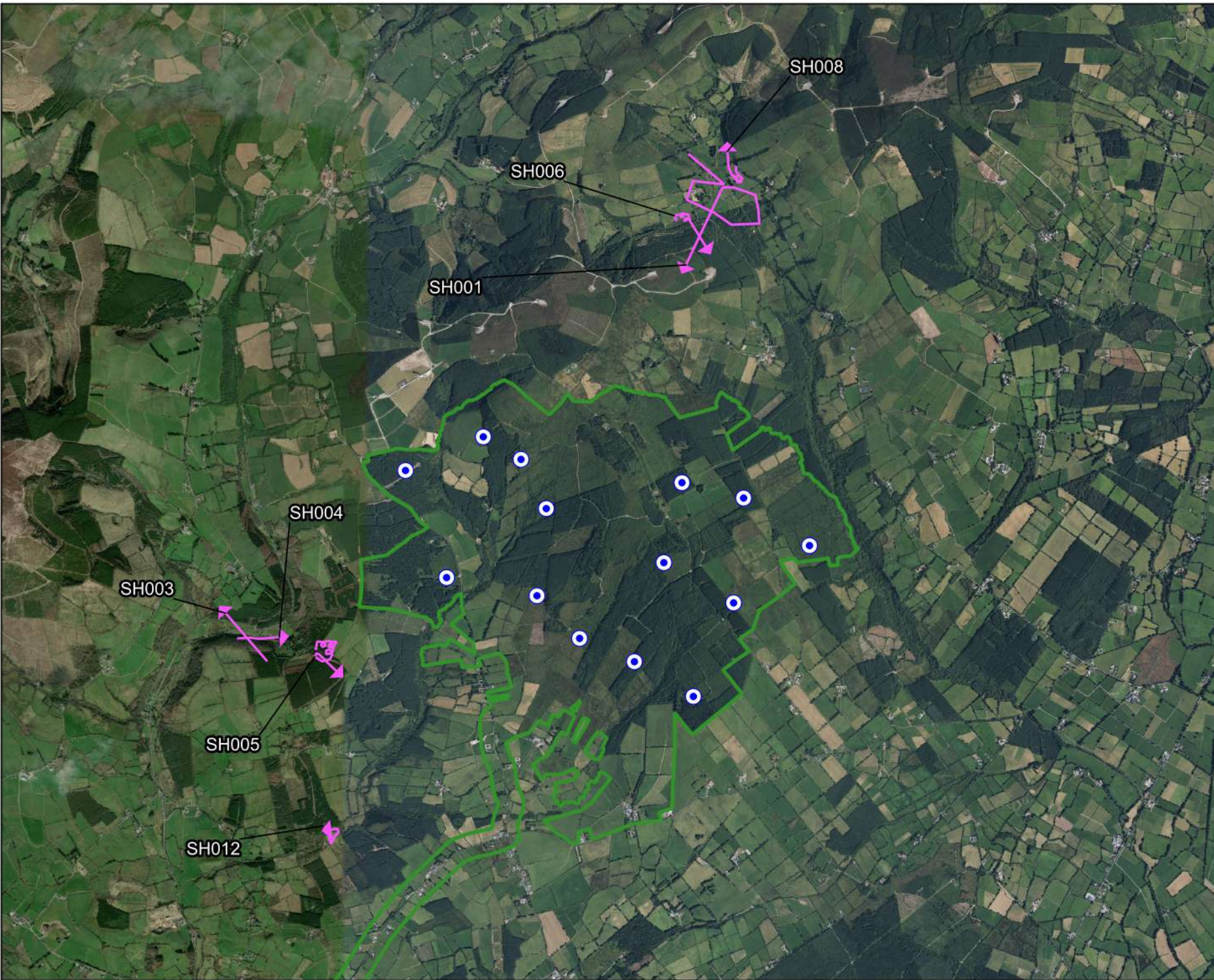
Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Survey Area
-  Flight Observation






Drawing Title	
Breeding Walkover Survey Sparrowhawk Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 44
Scale	Date
1:30,000	30.01.26
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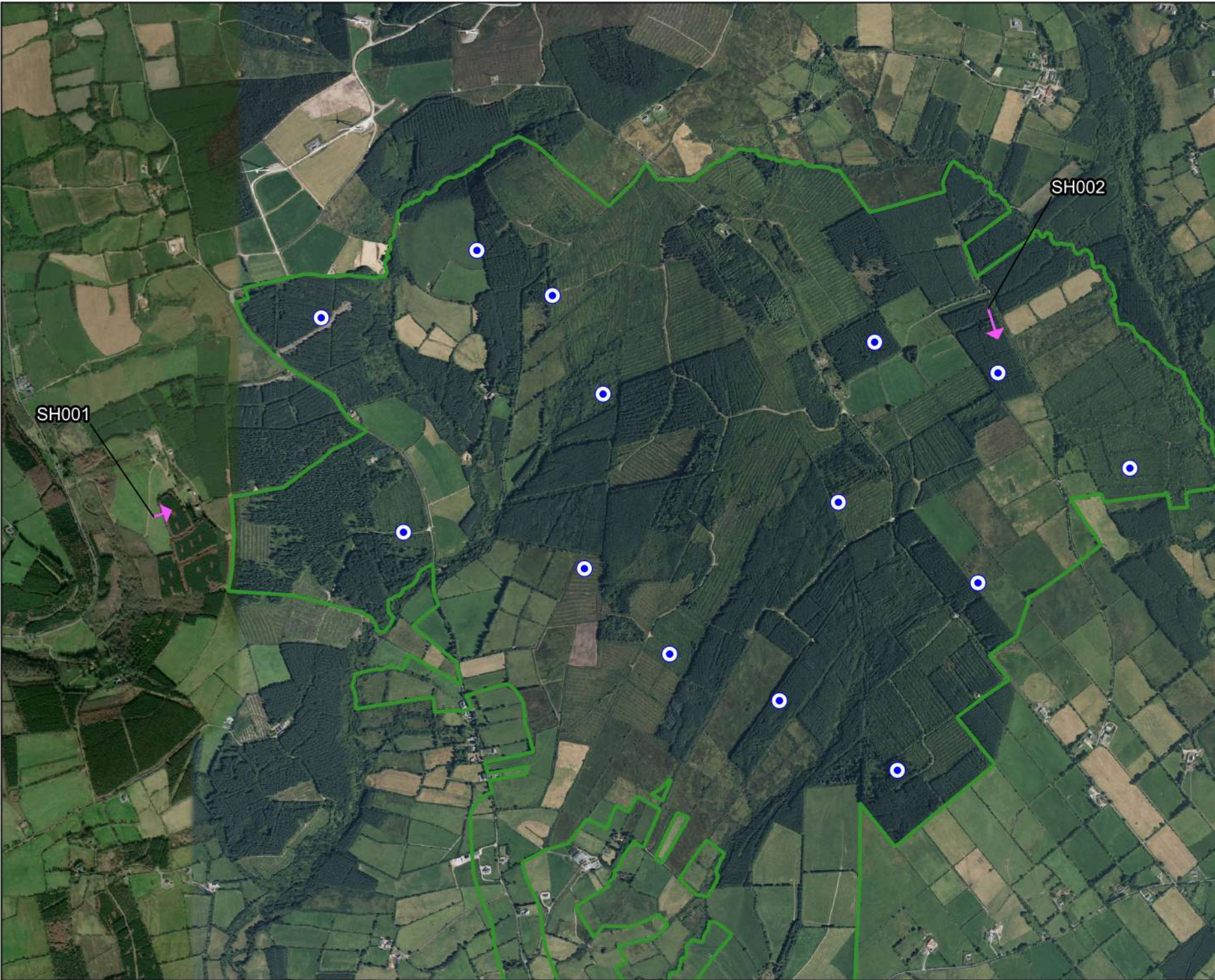


Map Legend




-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation



Drawing Title	
Breeding Raptor Survey Sparrowhawk Observations	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 45
Scale	Date
1:40,000	30.01.26
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Map Legend

-  Proposed Development
-  Proposed Turbine Layout
-  Flight Observation

SH001

SH002



Drawing Title	
Sparrowhawk Incidental Records	
Project Title	
Carrow Wind Farm	
Drawn By	Checked By
NL	PM
Project No.	Drawing No.
231102	Fig. 7 - 4 - 46
Scale	Date
1:20,000	30.01.26
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