



APPENDIX 7-4

SURVEY DATA

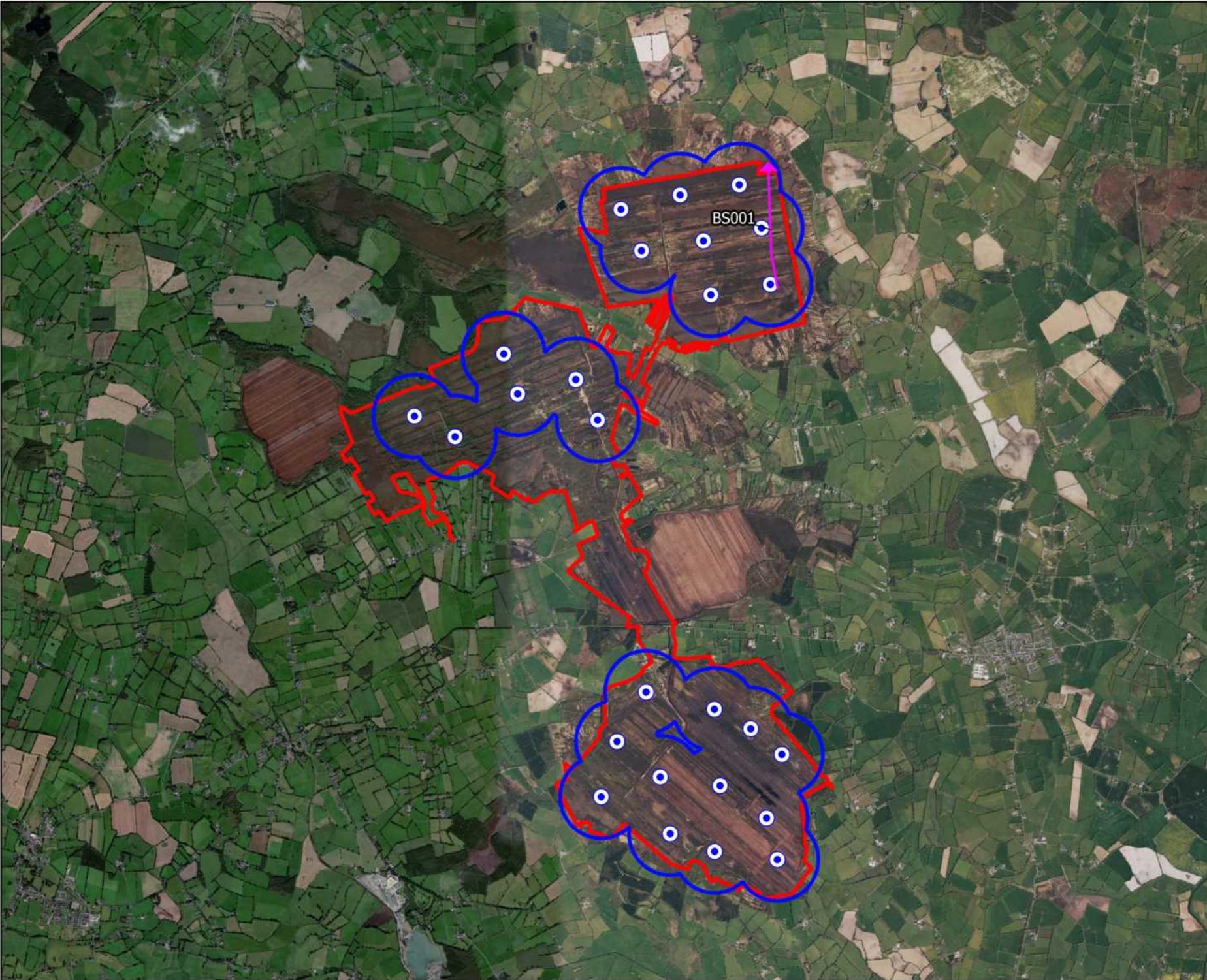
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Table 1 Bewick's Swan Survey Data

Vantage Point Survey												
Map 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
BS001	VP6	25/11/2020	11:20	Bewick's Swan	5	140	0	0	140	0	cutover bog; travelling	DM



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline



Drawing Title
**Bewick's Swan Observations
 Vantage Point Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
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Project No. 191137	Drawing No. Fig. 7.1.1
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Scale 1:60000	Date 14.02.23
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Table 2 Golden Plover Survey Data

Vantage Point Surveys												
Map 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
GP014	VP5	08/10/2020	18:52	Golden Plover	38	42	0	0	42	0	cutover bog; travelling	DW
GP015	VP4	09/10/2020	17:49	Golden Plover	9	41	0	0	41	0	cutover bog; travelling and calling	DW
GP020	VP11	13/10/2020	14:33	Golden Plover	30	25	0	0	25	0	cutover bog, improved agricultural grassland and mixed broadleaved/conifer woodland, travelling	KB
GP021	VP11	13/10/2020	17:02	Golden Plover	24	180	0	10	140	30	cutover bog and mixed broadleaved/conifer woodland; travelling, flying across the bog	KB
GP022	VP13	16/10/2020	15:01	Golden Plover	10	15	10	2	3	0	cutover bog; landed on bog, flock flew in over treeline north of VP, flying low around the bog and landed.	KB
GP023	VP9	20/10/2020	13:43	Golden Plover	1	10	0	0	10	0	cutover bog, scrub and immature woodland; travelling, travelling eastwards making a whistling call while in flight	KB
GP016	VP3	23/10/2020	12:50	Golden Plover	9	157	0	0	157	0	improved agricultural grassland and conifer plantation, travelling	DW
GP017	VP3	23/10/2020	13:00	Golden Plover	178	133	0	0	133	0	improved agricultural grassland; circling	DW
GP018	VP3	23/10/2020	14:25	Golden Plover	12	68	0	0	68	0	improved agricultural grassland; circling	DW
GP019	VP3	23/10/2020	17:09	Golden Plover	233	25	0	0	25	0	improved agricultural grassland, travelling, briefly seen between distant treeline	DW

Vantage Point Surveys												
Map 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
GP032	VP15	28/10/2020	15:06	Golden Plover	12	256	69	171	16	0	cutover bog: flying, calling, came into land on clean cutover, landed briefly for 2s before continuing to fly before landing again	PW
GP024	VP14	29/10/2020	13:01	Golden Plover	308	560	0	0	560	0	cutover bog and raised bog; flying, 81 birds at first picked up through rain flying toward VP15 side, these were then joined by 27 more birds after the first 120s. these 108 birds were in view for 360s before moving off towards VP12 and joining a flock of 200 GP. lost from view in rain.	PW
GP025	VP14	29/10/2020	13:38	Golden Plover	150	125	0	0	125	0	cutover bog: flying, part of a GP flock rose above treeline into view at PCH before dropping below treeline out of view.	PW
GP026	VP14	29/10/2020	14:16	Golden Plover	100	43	0	0	43	0	improved agricultural grassland and cutover bog, flying	PW
GP027	VP14	29/10/2020	14:23	Golden Plover	350	119	0	0	119	0	cutover bog: flying, came above treeline into view and the went below treeline out of view.	PW

Vantage Point Surveys												
Map 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
GP028	VP14	29/10/2020	16:17	Golden Plover	350	595	0	0	595	0	cutover bog, improved agricultural grassland and mixed broadleaved woodland; flying, 200 birds at first for 300s, then joined by 150 which rose above treeline to join them in view at PCH. these 350 were in view for a further 180s before most were obscured in rain cloud, after which 51 were observed moving SW over farmland.	PW
GP029	VP14	29/10/2020	16:25	Golden Plover	12	74	0	0	74	0	cutover bog; flying, dropped below treeline out of view.	PW
GP030	VP14	29/10/2020	16:35	Golden Plover	11	213	0	0	213	0	cutover bog; flying	PW
GP031	VP14	29/10/2020	16:44	Golden Plover	200	124	0	0	124	0	cutover bog; flying	PW
GP012	VP16	30/10/2020		Golden Plover	13	60	10	50	0	0	cutover bog; flushed by peregrine	JK
GP013	VP16	30/10/2020		Golden Plover	1800	0	0	0	0	0	cutover bog; large flock, too far and in glare to count accurately	JK
GP040	VP7	02/11/2020	08:57	Golden Plover	25	120	0	0	120	0	cutover bog; travelling	DM
GP041	VP7	02/11/2020	12:13	Golden Plover	350	1680	0	0	1120	560	cutover bog; circling	DM
GP038	VP4	03/11/2020	09:22	Golden Plover	138	110	0	0	110	0	improved agricultural grassland, travelling, outside viewshed	DW

Vantage Point Surveys												
Map 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
GP037	VP15	03/11/2020	12:48	Golden Plover	50	2	0	0	2	0	improved agricultural grassland; flying, spotted briefly when following closer flock of golden plover.	PW
GP033	VP15	03/11/2020	13:06	Golden Plover	25	200	0	0	200	0	cutover bog; flying	PW
GP034	VP15	03/11/2020	13:08	Golden Plover	3	83	0	0	83	0	cutover bog; flying	PW
GP035	VP15	03/11/2020	13:09	Golden Plover	18	122	0	0	122	0	cutover bog; flying, dropped below treeline in distance out of view.	PW
GP036	VP15	03/11/2020	13:11	Golden Plover	30	48	0	0	48	0	cutover bog and improved agricultural grassland; flying, picked up when following closer flock of GP.	PW
GP054	VP16	09/11/2020	13:14	Golden Plover	90	40	0	0	40	0	cutover bog; flying over bog, travelling east	KB
GP042	VP11	16/11/2020	13:08	Golden Plover	9	120	0	0	120	0	cutover bog; travelling	DM
GP043	VP12	17/11/2020	09:05	Golden Plover	5		0	0	0	0	cutover bog; roosting on cutaway bog	DM
GP044	VP12	17/11/2020	09:20	Golden Plover	25	60	0	0	60	0	cutover bog; travelling	DM
GP045	VP12	17/11/2020	09:42	Golden Plover	5	30	0	30	0	0	cutover bog; flushed by peregrine	DM
GP046	VP12	17/11/2020	12:45	Golden Plover	1	50	0	0	50	0	cutover bog; travelling	DM
GP039	VP3	20/11/2020	12:40	Golden Plover	45	32	0	0	32	0	improved agricultural grassland, travelling	DW
GP047	VP5	23/11/2020	09:48	Golden Plover	40	65	0	0	65	0	cutover bog; travelling	DM

Vantage Point Surveys												
Map 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
GP048	VP5	23/11/2020	11:06	Golden Plover	9	155	0	0	155	0	cutover bog; travelling	DM
GP049	VP5	23/11/2020	11:48	Golden Plover	27	240	0	40	200	0	cutover bog; travelling, descended below tree line	DM
GP050	VP5	23/11/2020	13:01	Golden Plover	27	120	60	60	0	0	cutover bog; landed on bog	DM
GP051	VP6	25/11/2020	08:19	Golden Plover	21	75	0	0	75	0	cutover bog; travelling	DM
GP052	VP6	25/11/2020	09:04	Golden Plover	10	90	0	0	90	0	cutover bog; travelling	DM
GP053	VP13	26/11/2020	10:56	Golden Plover	4	35	15	20	0	0	bogs; perched and flying	JC
GP055	VP4	03/12/2020	11:32	Golden Plover	43	62	0	0	62	0	improved agricultural grassland and cutover bog, travelling	DW
GP056	VP4	03/12/2020	11:40	Golden Plover	38	112	0	0	112	0	improved agricultural grassland and cutover bog, circling and travelling	DW
GP057	VP4	03/12/2020	13:00	Golden Plover	350	127	0	0	127	0	improved agricultural grassland, circling and travelling, outside of viewshed. approximate number	DW
GP058	VP4	03/12/2020	13:09	Golden Plover	250	235	0	0	235	0	improved agricultural grassland, circling, beyond viewshed. approximate number	DW
GP063	VP16	07/12/2020	16:07	Golden Plover	40	4	4	0	0	0	cutover bog; came up from ground and landed back down	KB
GP059	VP3	14/12/2020	15:19	Golden Plover	242	584	0	0	584	0	improved agricultural grassland; circling, fragmenting into smaller groups and reforming	DW

Vantage Point Surveys												
Map 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
GP060	VP3	14/12/2020	15:23	Golden Plover	330	116	0	0	116	0	improved agricultural grassland; circling	DW
GP061	VP3	14/12/2020	15:32	Golden Plover	78	112	0	0	112	0	improved agricultural grassland; circling	DW
GP062	VP5	17/12/2020	11:12	Golden Plover	6	25	0	25	0	0	cutover bog; travelling	DW
GP064	VP3	15/01/2021	09:35	Golden Plover	7	32	0	32	0	0	improved agricultural grassland and cutover bog; travelling	DW
GP065	VP3	15/01/2021	13:29	Golden Plover	17	38	0	0	38	0	cutover bog; travelling	DW
GP066	VP2	20/01/2021	13:38	Golden Plover	150	480	0	0	480	0	improved agricultural grassland; circling, beyond viewshed	DW
GP067	VP6	21/01/2021	09:16	Golden Plover	98	429	0	0	429	0	improved agricultural grassland; circling	DW
GP068	VP6	21/01/2021	11:20	Golden Plover	5	33	0	0	33	0	cutover bog; travelling, seen briefly	DW
GP069	VP1	28/01/2021	09:57	Golden Plover	110	105	0	15	90	0	cutover bog; circling	DW
GP075	VP12	10/02/2021	13:53	Golden Plover	110	12	0	0	12		cutover bog; travelling	KB
GP076	VP12	10/02/2021	14:51	Golden Plover	80	40	0	20	20		cutover bog; travelling	KB
GP070	VP3	17/02/2021	13:39	Golden Plover	195	125	0	0	125	0	improved agricultural grassland; circling	DW
GP074	VP11	22/02/2021	17:06	Golden Plover	16	80	10	10	60	0	cutover bog; travelling, landed on bog	DM
GP071	VP6	22/02/2021	16:14	Golden Plover	8	89	0	0	89	0	improved agricultural grassland and cutover bog; travelling	DW

Vantage Point Surveys												
Map 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
GP072	VP6	22/02/2021	17:34	Golden Plover	40	42	0	0	42	0	improved agricultural grassland, travelling	DW
GP073	VP8	24/02/2021	13:41	Golden Plover	115	245	0	0	245	0	improved agricultural grassland and cutover bog; circling	DW
GP080	VP5	03/03/2021	09:50	Golden Plover	73	125	5	20	100	0	cutover bog; travelling and landing, landing on bog	DW
GP081	VP5	03/03/2021	09:55	Golden Plover	54	120	5	10	110	0	cutover bog; circling and landing, landing from bog	DW
GP082	VP5	03/03/2021	10:00	Golden Plover	65	750	20	50	680	0	cutover bog and scrub; circling, swooping down to land on bog but pulling up on several occasions	DW
GP083	VP1	04/03/2021	07:57	Golden Plover	35	15	0	15	0	0	improved agricultural grassland, travelling	DW
GP084	VP1	04/03/2021	10:02	Golden Plover	85	45	0	15	30	0	improved agricultural grassland, travelling	DW
GP085	VP7	09/03/2021	10:26	Golden Plover	64	221	0	0	221	0	cutover bog and improved agricultural grassland; circling	DW
GP086	VP7	09/03/2021	10:41	Golden Plover	24	365	0	0	365	0	cutover bog; circling	DW
GP087	VP4	11/03/2021	07:42	Golden Plover	135	1250	50	100	1100	0	cutover bog and scrub; circling	DW
GP088	VP4	11/03/2021	08:09	Golden Plover	110	1060	10	30	1020	0	cutover bog and scrub; circling, swooping to land on bare peat but pulling out on one or two occasions	DW
GP089	VP4	11/03/2021	09:48	Golden Plover	108	348	5	23	320	0	cutover bog; circling	DW
GP090	VP4	11/03/2021	12:03	Golden Plover	85	325	0	0	325	0	cutover bog, scrub and improved agricultural grassland; circling	DW

Vantage Point Surveys												
Map 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
GP091	VP8	18/03/2021	07:26	Golden Plover	180	145	0	0	145	0	cutover bog and improved agricultural grassland; circling	DW
GP092	VP8	18/03/2021	07:53	Golden Plover	200	210	0	0	210	0	improved agricultural grassland; circling	DW
GP093	VP8	18/03/2021	09:59	Golden Plover	80	415	0	0	415	0	improved agricultural grassland and cutover bog; circling	DW
GP094	VP8	18/03/2021	10:15	Golden Plover	310	185	0	0	185	0	improved agricultural grassland; circling	DW
GP095	VP8	18/03/2021	10:45	Golden Plover	380	210	0	0	210	0	improved agricultural grassland; circling	DW
GP096	VP8	18/03/2021	10:58	Golden Plover	140	190	0	0	190	0	cutover bog and improved agricultural grassland; circling	DW
GP077	VP15	19/03/2021	09:09	Golden Plover	180	15	0	0	15	0	cutover bog and improved agricultural grassland, travelling	KB
GP078	VP15	19/03/2021	10:13	Golden Plover	110	50	0	0	0	50	cutover bog; flocking/flying over bog/travelling	KB
GP101	VP13	23/03/2021	07:02	Golden Plover	120	220	0	0	200	20	improved agricultural grassland, immature woodland and hedgerows; flock flying high along E site buffer and boundary, flying se, habitat was impossible to accurately decipher from such a distance	NM
GP097	VP3	23/03/2021	07:11	Golden Plover	54	245	0	0	245	0	improved agricultural grassland; circling	DW
GP102	VP13	23/03/2021	07:52	Golden Plover	45	360	0	0	360	0	improved agricultural grassland and treelines, flying along buffer boundary, circling high and flying over and back	NM

Vantage Point Surveys												
Map 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
GP098	VP3	23/03/2021	09:22	Golden Plover	83	355	0	55	300	0	improved agricultural grassland; circling	DW
GP103	VP13	23/03/2021	10:28	Golden Plover	97	90	0	20	40	0	cutover bog and hedgerows; flying in group SW along E boundary	NM
GP104	VP13	23/03/2021	11:15	Golden Plover	134	760	0	0	712	48	cutover bog, treelines and improved agricultural grassland, flying to and from over cutover bog, treelines and ga1 to N and W of VP, characteristic flight and murmuring pattern, flying high and over and back over a long period	NM
GP079	VP16	24/03/2021	07:34	Golden Plover	100	30	0	0	30	0	improved agricultural grassland; travelling/flocking	KB
GP099	VP6	24/03/2021	07:36	Golden Plover	45	130	0	0	130	0	improved agricultural grassland; circling	DW
GP100	VP6	24/03/2021	09:15	Golden Plover	83	365	0	0	365	0	improved agricultural grassland; circling	DW
GP107	VP11	25/03/2021	11:37	Golden Plover	180	680	0	0	550	130	improved agricultural grassland, cutover bog and immature woodland; soaring and circling like a grainy cloud to W of VP	NM
GP105	VP9	29/03/2021	09:32	Golden Plover	190	450	0	0	450	0	immature woodland, cutover bog and wet grassland; flying high and circling in large murmuring flock to E of VP, roughly 2-3km away, outside VP9 viewshed	NM

Vantage Point Surveys												
Map 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
GP106	VP9	29/03/2021	12:20	Golden Plover	87	175	0	0	160	15	cutover bog, mixed conifer woodland and improved agricultural grassland; flying and swirling over open cutover bog area to NW of VP, flying NE beyond RLB	NM
GP114	VP8	05/04/2021	15:38	Golden Plover	30	120	0	0	120	0	cutover bog; travelling	DM
GP115	VP10	06/04/2021	19:30	Golden Plover	25	120	100	20	0	0	cutover bog; circling, probably landed on bog	DM
GP116	VP10	29/09/2021	14:15	Golden Plover	35	58	58	0	0	0	cutover bog and improved agricultural grassland, travelling	KS
GP117	VP10	29/09/2021	17:52	Golden Plover	3	25	25	0	0	0	cutover bog; travelling, weaving back and forth over bog	KS
GP119	VP12	12/10/2021	07:42	Golden Plover	3	20	20	0	0	0	cutover bog; circling, chasing in circles low along ground	KS
GP120	VP12	12/10/2021	08:11	Golden Plover	8	55	15	5	35	0	cutover bog; circling	KS
GP121	VP12	12/10/2021	08:25	Golden Plover	5	60	60	0	0	0	cutover bog; flushed, pe hunting	KS
GP122	VP5	12/10/2021	08:26	Golden Plover	16	420	0	0	420	0	bogs; travelling	JM
GP123	VP5	12/10/2021	08:53	Golden Plover	46	400	0	0	400	0	bogs; travelling	JM
GP124	VP5	12/10/2021	09:06	Golden Plover	43	15	0	0	15	0	bogs; travelling	JM
GP125	VP5	12/10/2021	09:10	Golden Plover	45	960	0	0	960	0	bogs; travelling	JM
GP126	VP12	12/10/2021	09:14	Golden Plover	16	80	50	30	0	0	cutover bog and improved agricultural grassland, travelling	KS

Vantage Point Surveys												
Map 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
GP127	VP12	12/10/2021	09:31	Golden Plover	33	350	30	100	220	0	cutover bog; circling	KS
GP128	VP5	12/10/2021	09:34	Golden Plover	67	540	0	10	530	0	bogs; travelling	JM
GP129	VP12	12/10/2021	10:22	Golden Plover	13	30	30	0	0	0	cutover bog; travelling	KS
GP130	VP5	12/10/2021	12:08	Golden Plover	165	547	0	0	200	347	bogs; travelling/calling	JM
GP131	VP12	12/10/2021	12:13	Golden Plover	28	100	70	30	0	0	cutover bog; flushed, buzzard landed again	KS
GP132	VP5	12/10/2021	12:35	Golden Plover	170	660	0	0	330	330	bogs; travelling	JM
GP133	VP13	13/10/2021	08:27	Golden Plover	21	45	45	0	0	0	cutover bog and conifer plantation; travelling	KS
GP134	VP13	13/10/2021	08:39	Golden Plover	62	35	35	0	0	0	cutover bog and conifer plantation; travelling	KS
GP135	VP3	13/10/2021	09:45	Golden Plover	6	40	0	0	40	0	bogs; travelling/calling	JM
GP136	VP4	14/10/2021	08:28	Golden Plover	15	190	0	0	190	0	bogs; travelling	JM
GP137	VP4	14/10/2021	08:49	Golden Plover	110	2760	0	0	1760	1000	bogs; travelling, circling area calling	JM
GP138	VP4	14/10/2021	10:43	Golden Plover	17	20	0	0	20	0	bogs; travelling	JM
GP139	VP4	14/10/2021	10:43	Golden Plover	220	140	0	0	140	0	bogs; travelling	JM
GP140	VP4	14/10/2021	11:09	Golden Plover	200	1080	0	0	1080	0	bogs; travelling	JM

Vantage Point Surveys												
Map 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
GP141	VP4	14/10/2021	11:52	Golden Plover	100	150	0	0	150	0	bogs and bog woodland; travelling	JM
GP142	VP14	14/10/2021	12:05	Golden Plover	5	30	30	0	0	0	cutover bog and dry siliceous heath; travelling, calling	KS
GP143	VP15	15/10/2021	08:22	Golden Plover	14	45	0	45	0	0	cutover bog and treelines; travelling	KS
GP144	VP15	15/10/2021	08:32	Golden Plover	11	37	0	37	0	0	cutover bog; travelling	KS
GP145	VP15	15/10/2021	09:22	Golden Plover	24	65	30	35	0	0	cutover bog; circling	KS
GP146	VP6	18/10/2021	10:52	Golden Plover	1	40	0	0	40	0	bogs; travelling, this is VP6, flight height 50m approx.	Name
GP147	VP6	18/10/2021	10:53	Golden Plover	23	46	0	0	46	0	bogs; travelling, this is VP6, flight height 50m approx.	JM
GP148	VP6	18/10/2021	12:56	Golden Plover	22	82	0	0	82	0	bogs; travelling, this is VP6	JM
GP149	VP6	18/10/2021	13:39	Golden Plover	140	125	0	0	125	0	bogs; travelling, this is VP6 not VP1, 50 m plus height	JM
GP150	VP1	20/10/2021	10:40	Golden Plover	160	15	0	0	15	0	bogs and mixed broadleaved/conifer woodland; travelling	JM
GP151	VP8	21/10/2021	09:41	Golden Plover	23	240	0	0	240	0	bogs; travelling, above 50 metres flight	JM
GP152	VP10	28/10/2021	09:17	Golden Plover	1	80	0	0	80	0	bogs; travelling, flight at approx. 50 metres plus	JM
GP153	VP10	28/10/2021	11:27	Golden Plover	1	15	0	0	15	0	bogs and bog woodland; travelling	JM
GP154	VP11	29/10/2021	08:24	Golden Plover	1	10	0	0	10	0	bogs; travelling/calling, above 50m	JM

Vantage Point Surveys												
Map 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
GP155	VP11	29/10/2021	09:02	Golden Plover	13	64	0	0	64	0	bogs; travelling, flight at 50 metres plus	JM
GP156	VP11	29/10/2021	10:15	Golden Plover	6	30	0	0	30	0	bogs; travelling, above 50 m	JM
GP157	VP11	29/10/2021	11:11	Golden Plover	4	20	0	0	20	0	bogs and bog woodland; travelling, above 50 metres flight	JM
GP158	VP11	29/10/2021	12:04	Golden Plover	1	50	3	47	0	0	bogs; travelling	JM
GP159	VP6	04/11/2021	15:47	Golden Plover	200	900	0	0	0	0	cultivated land and mixed conifer woodland; travelling	JM
GP160	VP4	10/11/2021	13:25	Golden Plover	22	309	0	0	0	0	bogs; travelling	JM
GP161	VP12	20/11/2021	11:50	Golden Plover	10	20	20	0	20	0		TS
GP162	VP12	20/11/2021	12:19	Golden Plover	29	210	10	40	50	0	cutover bog; flying than perched	TS
GP163	VP12	20/11/2021	12:50	Golden Plover	65	880	60	220	280	0	cutover bog; circling, flying, perched	TS
GP164	VP12	20/11/2021	13:20	Golden Plover	65	230	30	200	230	0	cutover bog; lost	TS
GP165	VP11	21/11/2021	16:46	Golden Plover	3	80	0	30	30	0	cutover bog; lost	TS
GP166	VP9	25/11/2021	11:34	Golden Plover	190	30	0		0	30	cutover bog; flying over	KB
GP167	VP12	03/12/2021	08:17	Golden Plover	2	40	0	20	20	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
GP168	VP12	03/12/2021	10:31	Golden Plover	4	120	20	100	120	0	cutover bog; circling	KS

Vantage Point Surveys												
Map 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
GP169	VP4	03/12/2021	11:01	Golden Plover	32	1380	0	0	0	0	bogs; travelling	JM
GP170	VP12	03/12/2021	11:56	Golden Plover	7	240	100	100	200	0	cutover bog and mixed broadleaved/conifer woodland; circling	KS
GP171	VP12	03/12/2021	12:04	Golden Plover	3	60	60	0	60	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
GP172	VP12	03/12/2021	12:38	Golden Plover	24	60	0	60	60	0	cutover bog; circling	KS
GP173	VP12	03/12/2021	12:49	Golden Plover	5	300	200	100	300	0	cutover bog; landing, circled low over peat before landing	KS
GP174	VP12	03/12/2021	13:20	Golden Plover	22	420	200	120	320	0	cutover bog; landing, circling then landing	KS
GP175	VP4	03/12/2021	13:42	Golden Plover	8	32	0	0	0	0	bogs; travelling	JM
GP176	VP3	06/12/2021	09:04	Golden Plover	50	45	0	0	0	0	bogs and conifer plantation; travelling	JM
GP177	VP7	12/12/2021	11:28	Golden Plover	80	120	0	0	0	0	cutover bog and scrub; flying	TS
GP178	VP7	12/12/2021	11:35	Golden Plover	150	550	0	0	0	0	cutover bog, scrub and wet willow-alder-ash woodland; flying, breaking down into smaller flocks from time to time	TS
GP179	VP7	12/12/2021	13:33	Golden Plover	140	160	0	0	0	0	cutover bog, scrub and wet willow-alder-ash woodland; flying	TS
GP180	VP13	14/12/2021	07:50	Golden Plover	2	10	10	0	10	0	cutover bog; calling	KS

Vantage Point Surveys												
Map 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
GP181	VP13	14/12/2021	11:35	Golden Plover	13	180	60	120	180	0	cutover bog and mixed broadleaved/conifer woodland; circling	KS
GP182	VP13	14/12/2021	12:06	Golden Plover	8	180	180	0	180	0	cutover bog; circling	KS
GP183	VP14	15/12/2021	09:18	Golden Plover	23	90	0	0	0	0	cutover bog and bog woodland; circling	KS
GP184	VP15	17/12/2021	11:26	Golden Plover	1	20	20	0	20	0	cutover bog and bog woodland; calling, heard but not seen	KS
GP185	VP16	23/12/2021	09:33	Golden Plover	90	120	0	0	0	0	improved grassland; circling	KS
GP186	VP16	23/12/2021	10:19	Golden Plover	125	720	0	0	0	0	improved agricultural grassland; circling	KS
GP187	VP16	23/12/2021	10:21	Golden Plover	90	600	0	0	0	200	improved agricultural grassland; circling, second separate flock	KS
GP188	VP16	23/12/2021	13:23	Golden Plover	45	180	0	0	0	0	cutover bog, improved agricultural grassland and mixed broadleaved/conifer woodland; travelling	KS
GP189	VP12	05/01/2022	13:32	Golden Plover	110	60	30	30	60	0	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland; circling, landing	KS
GP190	VP12	05/01/2022	14:33	Golden Plover	15	90	0	0	0	0	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland; circling	Name
GP191	VP12	05/01/2022	14:58	Golden Plover	85	720	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; circling	Name

Vantage Point Surveys												
Map 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
GP192	VP12	05/01/2022	15:19	Golden Plover	110	160	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; circling	KS
GP193	VP4	10/01/2022	11:41	Golden Plover	21	840	0	0	0	0	bogs; travelling	JM
GP194	VP14	10/01/2022	12:05	Golden Plover	2	45	45	0	45	0	cutover bog and bog woodland; travelling	KS
GP195	VP4	10/01/2022	12:08	Golden Plover	65	1440	0	0	0	0	bogs; travelling/circling	JM
GP196	VP15	25/01/2022	12:52	Golden Plover	265	600	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; circling, calling, still at height, out of sight	KS
GP197	VP5	28/01/2022	14:15	Golden Plover	3	21	1	1	2	0	bogs; travelling/calling	JM
GP198	VP5	03/02/2022	09:44	Golden Plover	180	900	0	5	5	0	cutover bog; travelling/circling, large flock estimated close to 200 individuals	NM
GP199	VP5	03/02/2022	10:01	Golden Plover	200	750	0	0	0	0	cutover bog; travelling/circling, flock reappeared after rain shower. est.250	NM
GP200	VP5	03/02/2022	10:47	Golden Plover	300	165	0	0	0	0	cutover bog; flying/circling, flock stayed for lunch break in area for 30min.	NM
GP201	VP5	03/02/2022	11:29	Golden Plover	300	760	0	0	0	0	cutover bog; flying	NM
GP202	VP5	03/02/2022	12:00	Golden Plover	300	628	0	0	0	0	cutover bog; flying	NM
GP203	VP5	03/02/2022	12:37	Golden Plover	400	907	0	90	90	0	cutover bog; flying, nm	NM

Vantage Point Surveys												
Map 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
GP204	VP6	04/02/2022	08:39	Golden Plover	300	865	0	0	0	0	cutover bog and conifer plantation; flying, initial group of 80 over conifers joined by birds from the south	NM
GP205	VP14	04/02/2022	08:55	Golden Plover	110	240	0	0	0	0	improved agricultural grassland and cutover bog; circling	KS
GP206	VP6	04/02/2022	09:06	Golden Plover	300	680	10	20	30	0	improved agricultural grassland, cutover bog and conifer plantation; flying, flock appeared to land beyond conifer plantation	NM
GP207	VP6	04/02/2022	09:35	Golden Plover	200	300	0	0	0	0	improved agricultural grassland; flying	NM
GP208	VP6	04/02/2022	10:04	Golden Plover	300	568	40	8	48	0	cutover bog; flying/landing, flock would regularly break off into smaller groups landing on cutover	NM
GP209	VP6	04/02/2022	11:16	Golden Plover	300	300	0	0	0	0	improved agricultural grassland; flying	NM
GP210	VP14	04/02/2022	11:55	Golden Plover	1	20	20	0	20	0	cutover bog; calling, not seen	KS
GP211	VP6	04/02/2022	12:20	Golden Plover	300	3019	0	0	0	0	cutover bog; flying	NM
GP212	VP6	04/02/2022	12:57	Golden Plover	300	720	0	0	0	0	cutover bog; flying	NM
GP213	VP7	09/02/2022	09:10	Golden Plover	20	10	0	0	0	0	cutover bog; travelling, small group seen travelling due west	NM
GP214	VP7	09/02/2022	11:18	Golden Plover	200	90	0	0	0	0	cutover bog; flying	NM
GP215	VP8	10/02/2022	08:05	Golden Plover	100	20	0	0	0	0	improved agricultural grassland and cutover bog; travelling	NM

Vantage Point Surveys												
Map 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
GP216	VP8	10/02/2022	08:17	Golden Plover	20	10	0	0	0	0	improved agricultural grassland and cutover bog; travelling	NM
GP217	VP8	10/02/2022	09:14	Golden Plover	100	40	0	0	0	0	improved agricultural grassland; travelling	NM
GP218	VP8	10/02/2022	11:02	Golden Plover	10	5	0	0	0	0	improved agricultural grassland; travelling	NM
GP219	VP9	11/02/2022	10:39	Golden Plover	33	126	0	0	0	0	improved agricultural grassland and cutover bog; travelling	NM
GP220	VP3	11/02/2022	11:39	Golden Plover	2	34	0	34	34	0	bogs; travelling	JM
GP221	VP15	14/02/2022	11:20	Golden Plover	120	480	0	0	0	0	improved agricultural grassland; circling	KS
GP222	VP12	15/02/2022	08:10	Golden Plover	100	210	0	0	0	210	cutover bog; flying, lost them in the clouds	EH
GP223	VP12	15/02/2022	09:34	Golden Plover	280	1170	20	20	40	610	cutover bog; flying, 280+/- birds	EH
GP224	VP12	15/02/2022	10:46	Golden Plover	120	180	5	15	20	80	cutover bog; flying	eh
GP225	VP11	16/02/2022	08:49	Golden Plover	280	78	0	0	0	78	cutover bog; flying	EH
GP226	VP11	16/02/2022	08:50	Golden Plover	120	57	0	0	0	57	cutover bog; flying, lost in clouds	EH
GP227	VP13	17/02/2022	09:27	Golden Plover	45	113	0	0	0	113	cutover bog; flying	EH
GP228	VP13	17/02/2022	09:40	Golden Plover	45	139	0	0	0	0	cutover bog; flying	eh
GP229	VP13	17/02/2022	11:44	Golden Plover	2	88	88	0	88	0	cutover bog; flying	EH

Vantage Point Surveys												
Map 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
GP230	VP6	25/02/2022	12:48	Golden Plover	350	520	0	20	20	0	improved agricultural grassland and cultivated land; circling	DW
GP231	VP6	25/02/2022	13:40	Golden Plover	525	750	0	0	0	0	improved agricultural grassland and cultivated land; circling	DW
GP232	VP6	25/02/2022	14:23	Golden Plover	570	4850	0	0	0	0	improved agricultural grassland, cultivated land and bogs; circling, flock breaking up and reforming over observation period	DW
GP233	VP6	25/02/2022	15:57	Golden Plover	590	1680	0	0	0	0	improved agricultural grassland and cultivated land; circling	DW
GP234	VP6	25/02/2022	17:09	Golden Plover	655	3910	0	0	0	0	improved agricultural grassland and cultivated land; circling	DW
GP235	VP1	01/03/2022	12:52	Golden Plover	150	900	0	0	0	0	bogs and mixed broadleaved/conifer woodland; travelling/circling/calling, above 100 metres throughout	JM
GP236	VP1	01/03/2022	13:26	Golden Plover	100	346	0	6	6	0	bogs and mixed broadleaved/conifer woodland; travelling/circling, 300 seconds at 50-100m	JM
GP237	VP1	01/03/2022	13:41	Golden Plover	90	480	0	0	0	0	bogs and mixed broadleaved/conifer woodland; travelling, between 50-100m for 470 seconds	JM
GP238	VP3	02/03/2022	12:33	Golden Plover	35	900	0	0	0	0	bogs; travelling/circling/calling	JM
GP239	VP3	02/03/2022	13:31	Golden Plover	10	26	0	26	26	0	bogs; travelling	JM
GP240	VP3	02/03/2022	13:38	Golden Plover	31	47	0	0	0	0	bogs; travelling	JM
GP241	VP3	02/03/2022	14:47	Golden Plover	25	137	0	0	0	0	bogs; travelling/circling/calling, in 50-100 metre throughout	JM

Vantage Point Surveys												
Map 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
GP242	VP3	02/03/2022	16:36	Golden Plover	200	80	0	0	0	0	bogs and conifer plantation; travelling, flight between 50-100 metres	JM
GP243	VP12	13/03/2022	14:12	Golden Plover	760	2520	600	600	1200	120	cutover bog; flocking/flying over, landed on bog - took up again	KB
GP244	VP12	13/03/2022	16:40	Golden Plover	9	300	200	60	260	0	cutover bog; flying over	KB
GP245	VP12	13/03/2022	16:46	Golden Plover	13	360	180	120	300	0	cutover bog; flying over	KB
GP246	VP12	13/03/2022	17:00	Golden Plover	27	180	80	60	140	0	cutover bog; flying over, landed on bog	KB
GP247	VP12	13/03/2022	17:11	Golden Plover	27	120	60	60	120	0	cutover bog; flying over	KB
GP248	VP12	13/03/2022	17:38	Golden Plover	42	360	180	120	300	30	cutover bog; flying over	KB
GP249	VP12	13/03/2022	17:44	Golden Plover	8	120	60	60	120	0	cutover bog; flying over	KB
GP250	VP12	13/03/2022	17:45	Golden Plover	28	120	60	60	120	0	cutover bog; flying over	KB
GP251	VP12	13/03/2022	18:17	Golden Plover	58	300	0	60	60	0	cutover bog; flying over	KB
GP252	VP13	14/03/2022	15:50	Golden Plover	15	360	0	0	0	0	cutover bog; flying	TS
GP253	VP13	14/03/2022	18:23	Golden Plover	50	100	0	10	10	0	cutover bog, conifer plantation and improved agricultural grassland; flying	TS
GP254	VP14	15/03/2022	15:02	Golden Plover	240	480	0	0	0	0	cutover bog; flying	TS
GP255	VP11	17/03/2022	17:39	Golden Plover	57	60	0	5	5	0	cutover bog; flying over	KB

Vantage Point Surveys												
Map 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
GP256	VP11	17/03/2022	18:05	Golden Plover	76	240	30	10	40	60	cutover bog; flying over	KB
GP257	VP6	23/03/2022	16:08	Golden Plover	92	240	0	0	0	0	improved agricultural grassland; travelling	NM
GP258	VP15	29/03/2022	18:30	Golden Plover	300	120	0	0	0	0	cutover bog; circling	KS
GP259	VP16	30/03/2022	14:59	Golden Plover	32	220	220	0	220	0	cutover bog; circling	KS
GP260	VP16	30/03/2022	17:07	Golden Plover	50	180	0	0	0	0	cutover bog; circling	KS
GP261	VP16	30/03/2022	21:31	Golden Plover	11	35	0	0	0	0	mixed broadleaved/conifer woodland and cutover bog, travelling	KS
GP262	VP4	04/04/2022	08:20	Golden Plover	33	166	0	0	0	0	bogs; travelling	JM
GP263	VP5	05/04/2022	07:35	Golden Plover	11	240	0	0	0	0	bogs; travelling, @ 50-100m metres	JM
GP264	VP3	05/04/2022	09:47	Golden Plover	26	311	0	0	0	0	bogs; travelling, 261 seconds @ 50-100m height	JM
GP265	VP7	06/04/2022	10:30	Golden Plover	400	810	0	0	0	0	bogs and improved agricultural grassland, travelling/circling, band 50-100 metres throughout	JM
GP266	VP10	07/04/2022	12:01	Golden Plover	50	40	0	0	0	0	improved agricultural grassland and bogs; travelling, flight was below 100m	Name
GP267	VP11	08/04/2022	11:39	Golden Plover	21	163	3	60	63	0	bogs; travelling/circling	JM
GP268	VP14	11/04/2022	11:33	Golden Plover	1000	250	0	0	0	0	bogs: travelling/circling, difficult to make out exact height as they were far off.	JM

Vantage Point Surveys												
Map 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
GP269	VP16	23/04/2022	11:27	Golden Plover	12	60	0	0	0	0	cutover bog; travelling	DM
GP270	VP10	27/09/2022	17:31	Golden Plover	8	327	0	0	0	0	cutover bog and conifer plantation; display flight	NM
GP271	VP3	04/10/2022	08:16	Golden Plover	15	30	0	0	0	0	cutover bog; travelling	KS
GP272	VP4	04/10/2022	10:04	Golden Plover	2	20	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; circling	KS
GP273	VP4	04/10/2022	10:46	Golden Plover	30	25	0	0	0	0	cutover bog and improved agricultural grassland; circling	KS
GP274	VP4	04/10/2022	11:05	Golden Plover	28	600	0	0	0	0	cutover bog; circling, at PCH for ~10mins	KS
GP275	VP4	04/10/2022	12:52	Golden Plover	10	60	0	60	60	0	cutover bog and mixed broadleaved/conifer woodland; circling	KS
GP276	VP10	14/10/2022	08:33	Golden Plover	34	60	0	0	0	0	improved agricultural grassland; circling	KS
GP277	VP10	14/10/2022	08:41	Golden Plover	18	45	0	0	0	0	improved agricultural grassland; circling	KS
GP278	VP10	14/10/2022	11:08	Golden Plover	18	90	0	0	0	0	improved agricultural grassland; circling	KS

Vantage Point Surveys (Non-flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
GP108	VP13	26/11/2020	08:41	Golden Plover		bogs; flying, birds heard only not mapped	JC
GP109	VP13	26/11/2020	09:19	Golden Plover		bogs; calling, mapped	JC
GP110	VP15	28/10/2020	15:05	Golden Plover	12	cutover bog; perched on bog, landed after flying in. in view on ground for 150 mins when lost from view in darkness on bog.	PW
GP111	VP5	03/03/2021	09:55	Golden Plover	73	cutover bog; on ground, flock landing in this area	DW
GP112	VP4	11/03/2021	08:01	Golden Plover	70	cutover bog; on ground, some of flock briefly landing on bog	DW
GP113	VP4	11/03/2021	08:10	Golden Plover	135	cutover bog; on ground, flock landing on bog	DW
GP118	VP10	29/09/2021	15:57	Golden Plover	12	cutover bog; foraging, calling from ground	KS
GP279	VP12	12/10/2021	08:52	Golden Plover	4	cutover bog; roosting	KS
GP280	VP12	12/10/2021	10:25	Golden Plover	28	cutover bog; roosting	KS
GP281	VP2	05/01/2022	15:48	Golden Plover	2	cutover bog; roosting, arrived from north, remained until end of survey	KS
GP282	VP3	17/02/2022	10:25	Golden Plover	6	cutover bog; roosting, on bog for 30 mins	EH

Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
GP001	07/04/2021	11:04	Golden Plover	19	cutover bog; resting on bare peat. some birds approaching breeding plumage (Wintering)	DW

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
GP001	23/10/2020	09:03	Golden Plover	32	bogs; flushed circled and flew away	JC
GP002	17/12/2021	09:02	Golden Plover	9	bogs; travelling	JM
GP003	17/12/2021	09:51	Golden Plover	16	bogs; travelling/circling/calling	JM
GP004	13/01/2022	11:12	Golden Plover	6	bogs; travelling	JM

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
GP001	Annalla fields	08/02/2021	14:30	Golden Plover	36	improved agricultural grassland, feeding	DM
GP002		15/03/2021	12:35	Golden Plover	78	cutover bog and treelines; circling high above N treeline boundary of large cutover bog area	NM
GP003	On farmland	30/03/2021	09:40	Golden Plover	11	improved agricultural grassland; grazing on agricultural grassland	NM
GP004		30/03/2021	11:36	Golden Plover	9	spoil and bare ground and tilled land; foraging on dry bare tilled field	NM
GP005		30/03/2021	15:04	Golden Plover	280	improved agricultural grassland, raised bog and hedgerows; flying high far to W, moving N, appeared as a wispy cloud, hard to id accurately but had typical GP flight pattern	NM

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
GP006	N. of Ballivor	14/03/2022	10:00	Golden Plover	22	arable crops and improved agricultural grassland, travelling	DM
GP007	N. of Ballivor	14/04/2022	10:15	Golden Plover	45	arable crops: feeding, field being ploughed	DM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
GP001	CMVP5	24/11/2020	08:41	Golden Plover	25	15	improved agricultural grassland, hedgerows and canals, travelling	KB
GP002	CMVP3	25/11/2020	08:51	Golden Plover	41	30	improved agricultural grassland; travelling	KB
GP003	CMVP4	27/11/2020	09:57	Golden Plover	74	12	improved agricultural grassland; travelling, travelling in v formation, lost from view beyond treeline	KB
GP004	CMVP3	27/11/2020	14:41	Golden Plover	55	480	improved agricultural grassland; flocking. flying over, flock of 20 first observed swarming low over field north of VP. gradually ascended and joined by more birds - flock of 55 in total. ascended higher, circling area, then flew northeast-wards out of view	KB
GP005	CMVP3	27/11/2020	14:57	Golden Plover	170	900	improved agricultural grassland; flocking. flying over	KB
GP006	CMVP1	02/12/2020	14:50	Golden Plover	420	180	cutover bog and improved agricultural grassland; circling, flocking	KB
GP007	CMVP1	02/12/2020	15:54	Golden Plover	580	120	cutover bog and improved agricultural grassland; circling, flocking	KB

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
GP008	CMVP1	02/12/2020	16:16	Golden Plover	600	140	cutover bog and improved agricultural grassland; circling, flocking	KB
GP009	CMVP3	09/12/2020	08:26	Golden Plover	35	30	improved agricultural grassland; travelling	KB
GP010	CMVP3	09/12/2020	08:28	Golden Plover	20	15	improved agricultural grassland; travelling	KB
GP011	CMVP3	09/12/2020	08:35	Golden Plover	21	12	improved agricultural grassland; travelling	KB
GP012	CMVP3	09/12/2020	08:42	Golden Plover	54	360	improved agricultural grassland; flock circling over fields, dropping down to ground and rising back up. landed in field	KB
GP013	CMVP3	06/02/2021	09:47	Golden Plover	1	100	improved agricultural grassland; travelling	DM
GP014	CMVP3	22/02/2021	09:18	Golden Plover	17	120	improved agricultural grassland; travelling	DM
GP015	CMVP3	24/03/2021	17:30	Golden Plover	16	420	improved agricultural grassland; circling, then travelling	DM
GP016	CMVP3	24/03/2021	17:54	Golden Plover	85	150	improved agricultural grassland; travelling	DM
GP017	CMVP3	24/03/2021	18:05	Golden Plover	150	120	improved agricultural grassland; travelling	DM
GP018	CMVP3	24/03/2021	18:11	Golden Plover	160	660	improved agricultural grassland; circling	DM
GP019	CMVP3	24/03/2021	18:26	Golden Plover	65	90	improved agricultural grassland; travelling	DM
GP020	CMVP3	24/03/2021	18:30	Golden Plover	350	720	improved agricultural grassland; circling	DM
GP021	CMVP3	24/03/2021	19:00	Golden Plover	45	60	improved agricultural grassland; travelling	DM

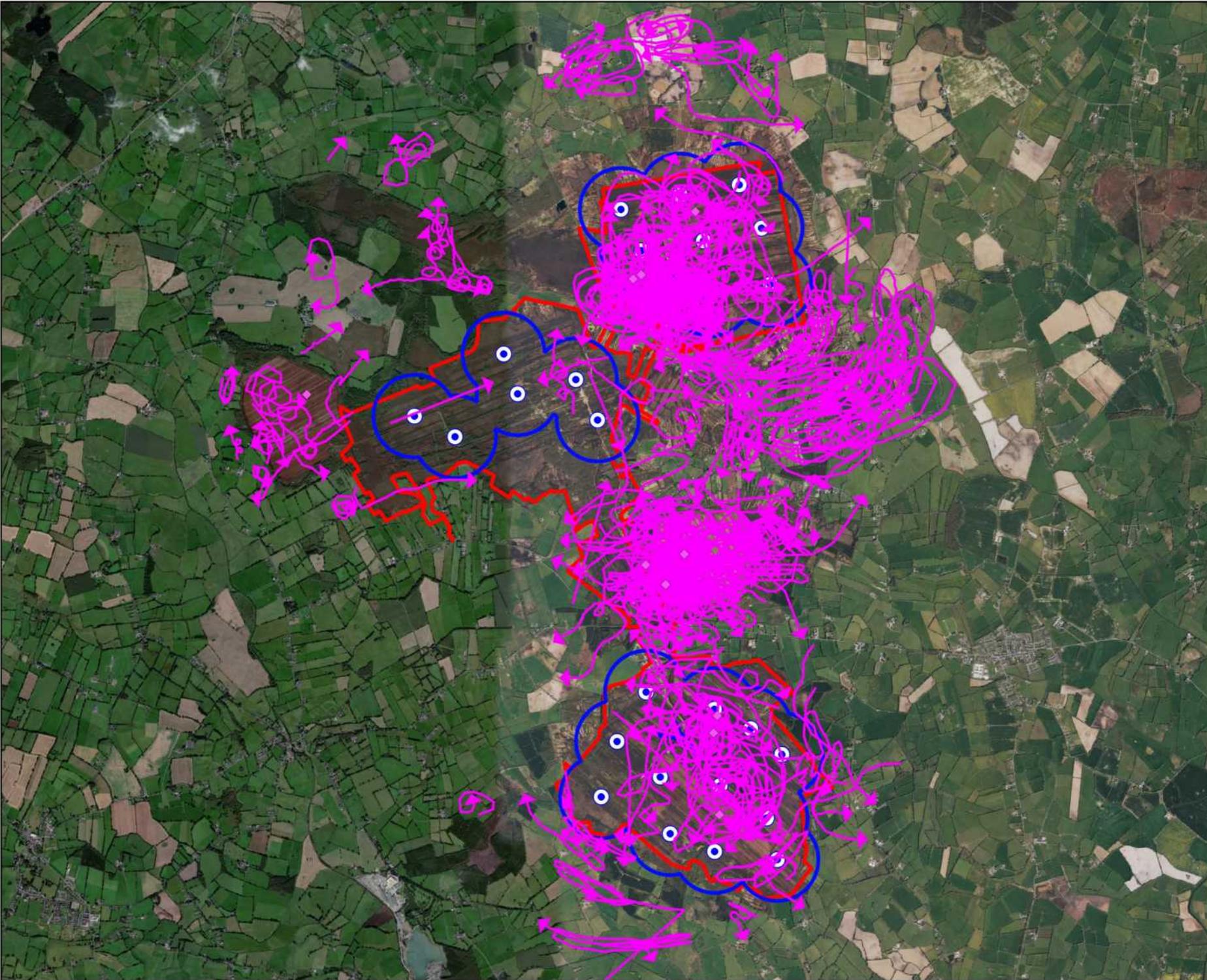
Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
GP022	CMVP3	24/03/2021	19:02	Golden Plover	35	50	improved agricultural grassland; circling, landed in field	DM
GP023	CMVP2	03/12/2021	09:27	Golden Plover	12	120	improved agricultural grassland; flying	TS
GP024	CMVP2	18/12/2021	15:57	Golden Plover	28	75	improved agricultural grassland, hedgerows and buildings and artificial surfaces; flying	TS
GP025	CMVP5	25/02/2022	07:26	Golden Plover	14	65	improved agricultural grassland and canals; flying, flying high	TS

Wintering Golden Plover Surveys								
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor	
GP001	Ballivor Works, Bord na Mona	09/02/2023	09:33	Golden Plover	100	Bogs; Travelling	JM	

Incidental Observations								
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor	
GP001	Breeding Raptor Survey, BRVP 2, section 3	20/04/2021	14:08	Golden Plover	42	improved agricultural grassland; travelling	KB	
GP002	Vantage Point Survey, rear of VP 2	11/10/2021	08:15	Golden Plover	1	bogs; calling, not seen, just heard	JM	
GP003	Vantage Point Survey, rear of VP2	11/10/2021	08:23	Golden Plover	1	bogs; calling, heard calling only	JM	
GP004	Vantage Point Survey, rear of VP2	11/10/2021	08:47	Golden Plover	1	bogs; calling, heard calling only	JM	

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
GP005	Vantage Point Survey, rear of VP2	11/10/2021	09:26	Golden Plover	1	bogs; calling, heard calling only	JM
GP006	Vantage Point Survey, rear of VP2	11/10/2021	12:52	Golden Plover	1	bogs; calling, not seen, only heard	JM
GP007	Vantage Point Survey, VP5 parking area	12/10/2021	06:45	Golden Plover	1	bogs; calling, calling, not seen	JM
GP008	Vantage Point Survey, between VP5 and VP3	13/10/2021	06:45	Golden Plover	1	bogs; calling	JM
GP009	Vantage Point Survey, rear of VP3	13/10/2021	08:29	Golden Plover	1	bogs; calling	JM
GP010	Vantage Point Survey, rear of VP4	14/10/2021	07:00	Golden Plover	1	bogs; calling	JM
GP011	Vantage Point Survey, VP5 viewshed, rear of VP4	14/10/2021	08:18	Golden Plover	26	bogs; flying/circling/calling, in area flying/calling for 15 mins	JM
GP012	Hen Harrier Roost Survey, HHVP2	18/10/2021	17:30	Golden Plover	95	cutover bog; circling	DM
GP013	Hen Harrier Roost Survey, HHVP4	26/10/2021	18:42	Golden Plover	25	cutover bog; circling, possibly landed	DM
GP014	Hen Harrier Roost Survey, HHVP3	29/10/2021	17:45	Golden Plover	15	cutover bog; travelling	DM
GP015	Hen Harrier Roost Survey, near VP3 roughly	17/11/2021	15:55	Golden Plover	200	bogs; travelling	JM
GP016	Hen Harrier Roost Survey, HHVP3	19/11/2021	07:10	Golden Plover	1	bogs; calling, not seen, only heard	JM
GP017	Vantage Point Survey, rear of VP3	02/12/2021	12:08	Golden Plover	1	bogs; calling, heard not seen	JM
GP018	Vantage Point Survey, Rathkenna	07/01/2022	10:02	Golden Plover	250	improved agricultural grassland; travelling/circling, observed enroute to VP1	JM
GP019	Vantage Point Survey, VP14	10/01/2022	11:37	Golden Plover	2	cutover bog and bog woodland; calling, not seen	KS
GP020	Vantage Point Survey, viewshed of VP5 Ballivor	28/01/2022	14:45	Golden Plover	1	bogs; travelling/calling, observed during lunch	JM

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
GP021	Vantage Point Survey, VP5	03/02/2022	10:10	Golden Plover	50	cutover bog; travelling, small portion of 300+ flock landed	NM
GP022	Vantage Point Survey, VP6	04/02/2022	09:23	Golden Plover	300	conifer plantation and improved agricultural grassland; flying/landing, large flock appeared to land beyond conifers	NM
GP023	Vantage Point Survey, VP7	09/02/2022	11:40	Golden Plover	25	cutover bog; travelling	NM
GP024	Vantage Point Survey, VP7	09/02/2022	12:44	Golden Plover	300	improved agricultural grassland and cutover bog; flying, large flock displaying	NM
GP025	Hen Harrier Roost Survey, HHVP3	18/02/2022	16:05	Golden Plover	183	cutover bog; grounded, flock resting during sleet showers	NM
GP026	Hen Harrier Roost Survey, HHVP3	18/02/2022	16:42	Golden Plover	72	cutover bog; flying, additional flock flying separate to the 183 individuals grounded	NM
GP027	Hen Harrier Roost Survey, HHVP4	21/02/2022	16:23	Golden Plover	310	cutover bog and conifer plantation; flying	NM
GP028	Vantage Point Survey, car parking for VP2, Clonleame	02/03/2022	12:09	Golden Plover	200	bogs; travelling	JM
GP029	Hen Harrier Roost Survey, HHVP2	16/03/2022	17:39	Golden Plover	500	improved agricultural grassland, conifer plantation and raised bog; flying	NM
GP030	Vantage Point Survey, Clonleame	05/04/2022	09:17	Golden Plover	17	bogs; travelling, @ 25-50 m band	JM
GP031	Vantage Point Survey, Rathkenna	05/04/2022	13:49	Golden Plover	400	improved agricultural grassland; travelling/circling, not part of a survey, just going home after VP	JM
GP032	Breeding Raptor Survey, BOVP1	08/04/2022	19:45	Golden Plover	17	improved agricultural grassland; travelling	NM
GP033	Vantage Point Survey, Belvue, peat moss factory	11/04/2022	09:32	Golden Plover	2	bogs; fly/perch, one was alarm calling, the other was perched on the ground	JM
GP034	Vantage Point Survey, VP5	26/09/2022	17:08	Golden Plover	22	cutover bog; display flight, small flock seen displaying northeast of site	NM



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline
- ◆ Observation



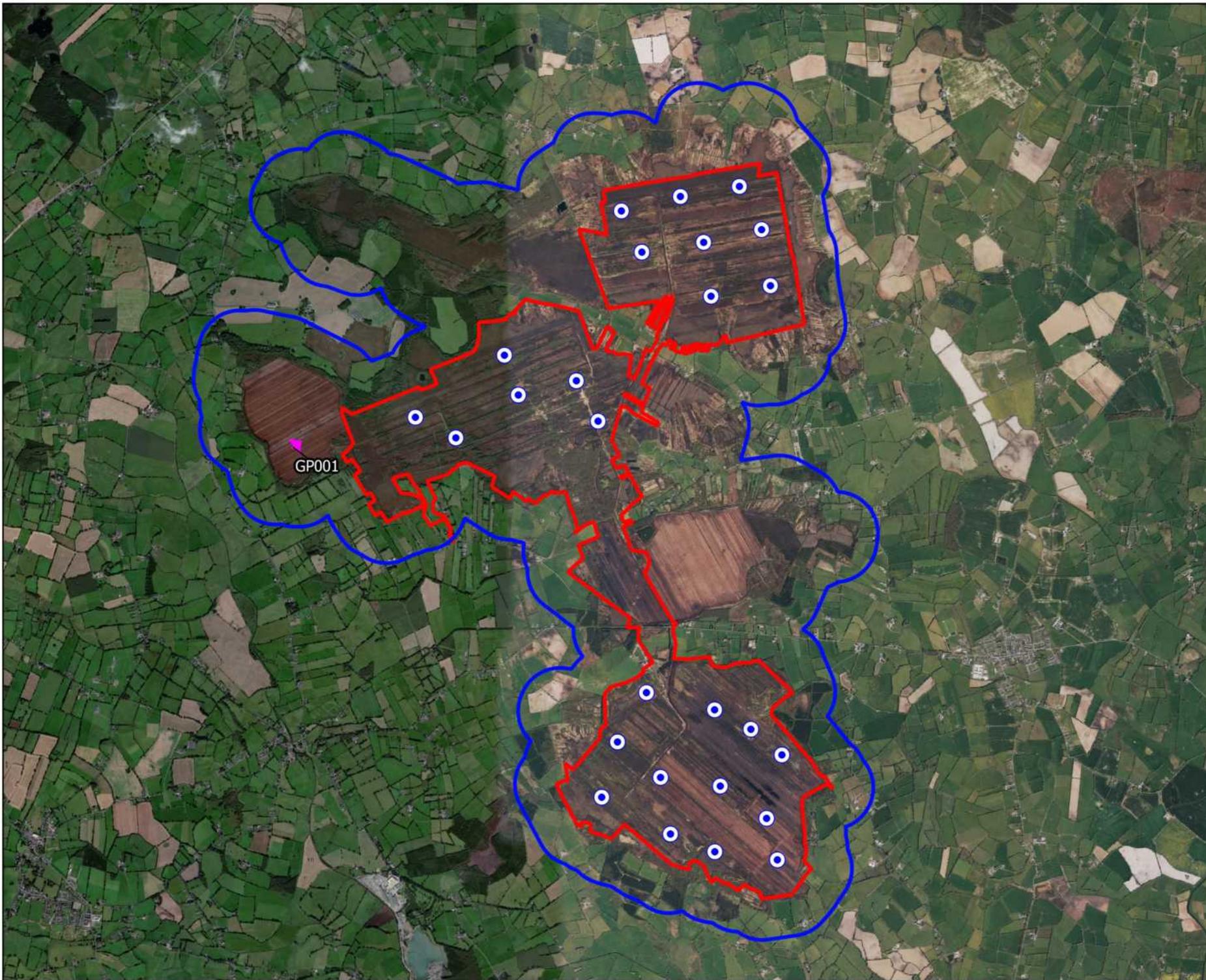
Drawing Title
**Golden Plover Observations
 Vantage Point Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.1.2
Scale 1:60000	Date 14.02.23

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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Survey Area
-  Flightline



Drawing Title

Golden Plover Observations
Breeding Walkover Surveys

Project Title

Ballivor Wind Farm

Drawn By
P. Manley

Checked By
P. Cregg

Project No.
191137

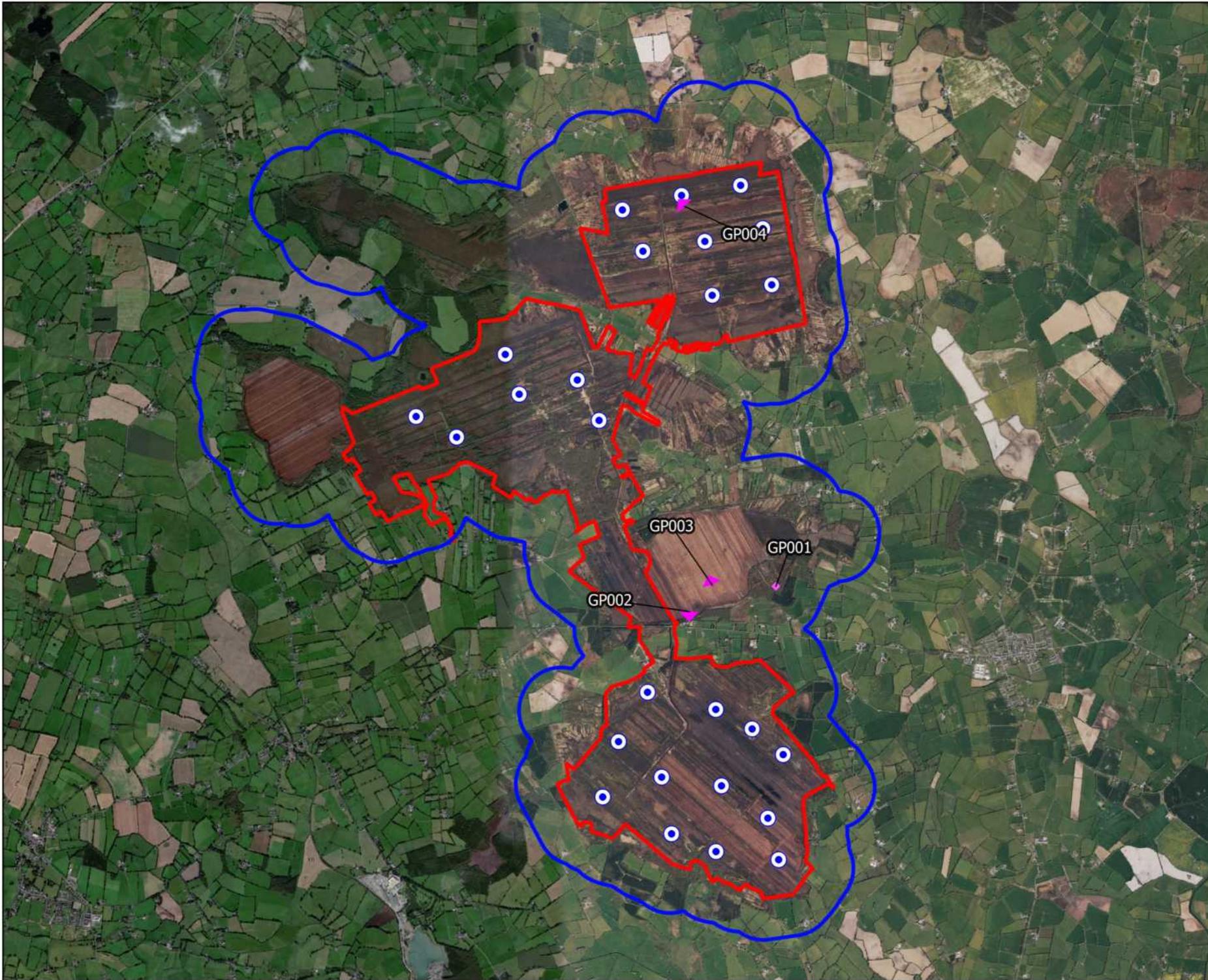
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title

Golden Plover Observations
Winter Walkover Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.7.1

Scale

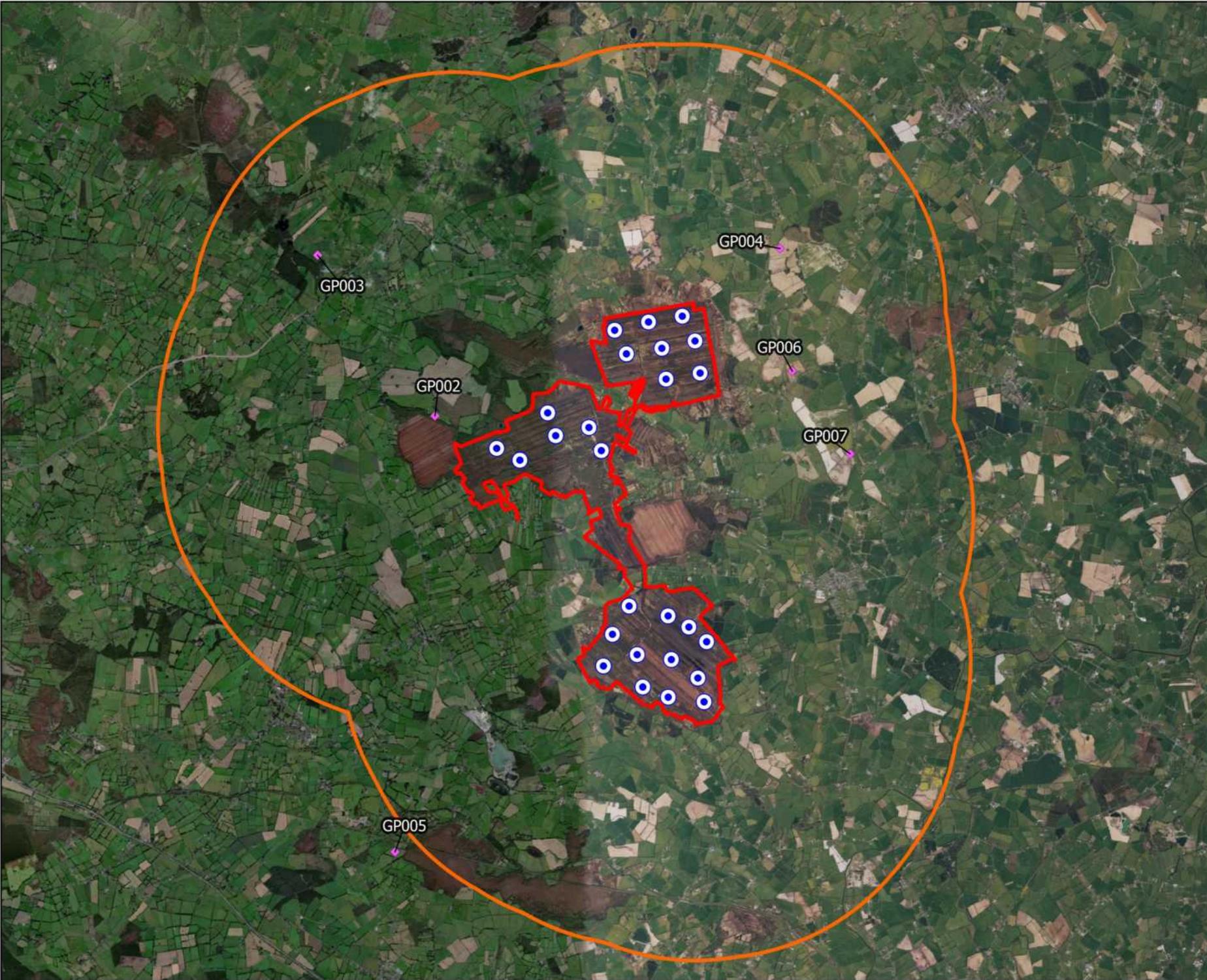
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Survey Area
-  Observation



Drawing Title
**Golden Plover Observations
 Waterbird Distribution Surveys**

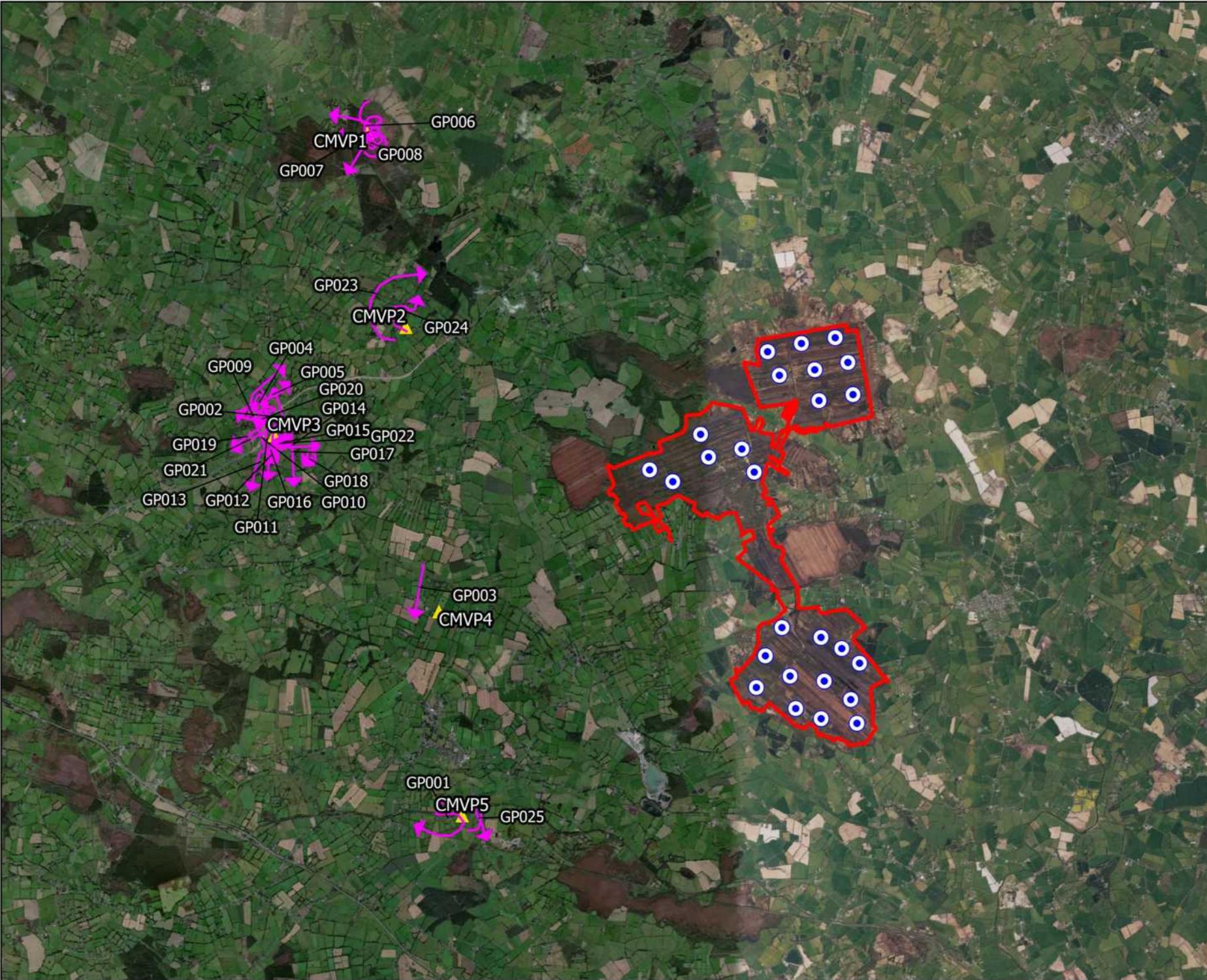
Project Title
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- ▲ Connectivity Vantage Point Survey Location
- Flightline



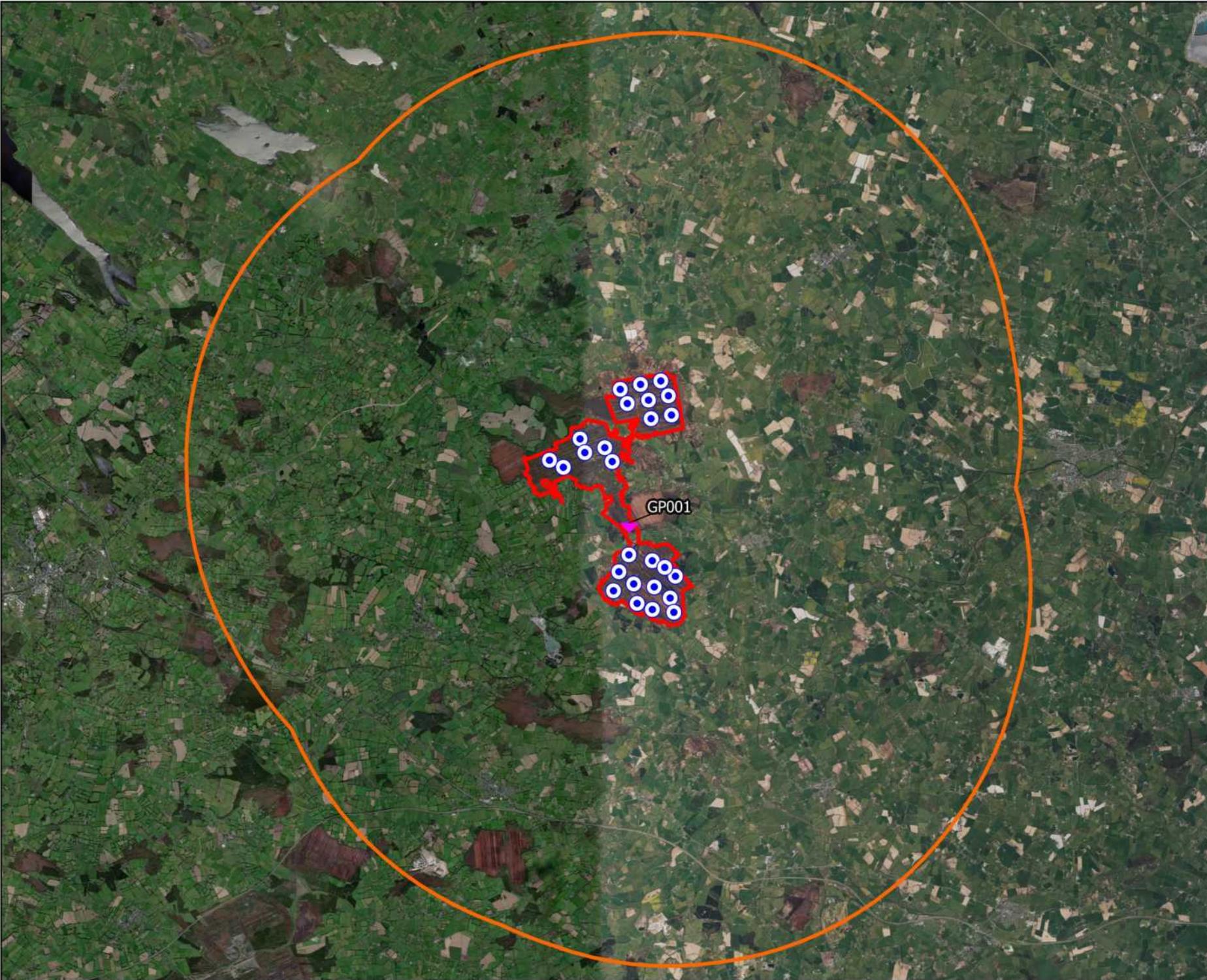
Drawing Title
**Golden Plover Observations
 Connectivity VP Surveys**

Project Title
Ballivor Wind Farm

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Project No. 191137	Drawing No. Fig. 7.9.1
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Survey Area
-  Flightline

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Drawing Title
**Golden Plover Observations
 Wintering GP Surveys**

Project Title
Ballivor Wind Farm

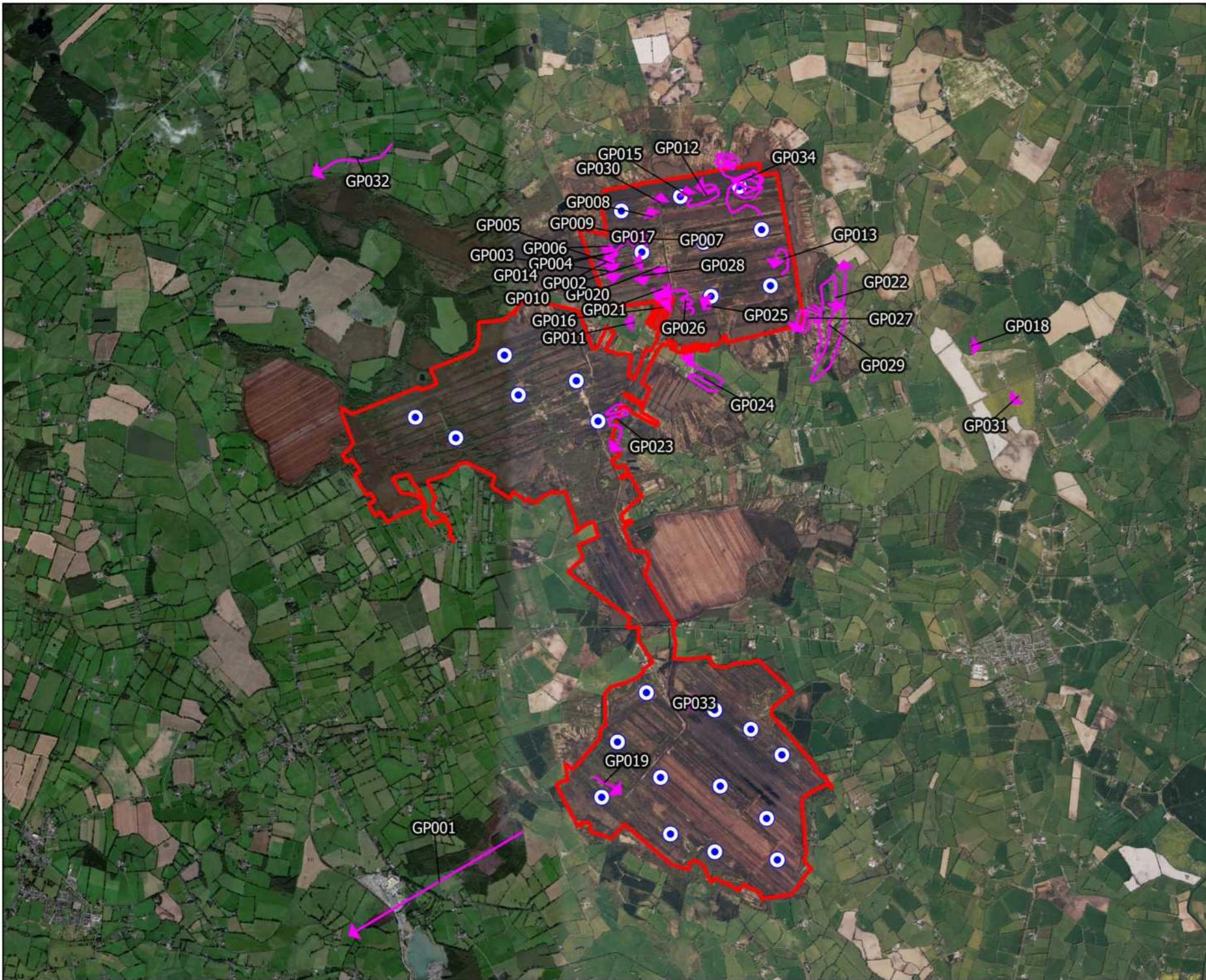
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline



Drawing Title

Golden Plover
Incidental Observations

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

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Drawing No.

Fig. 7.12.1

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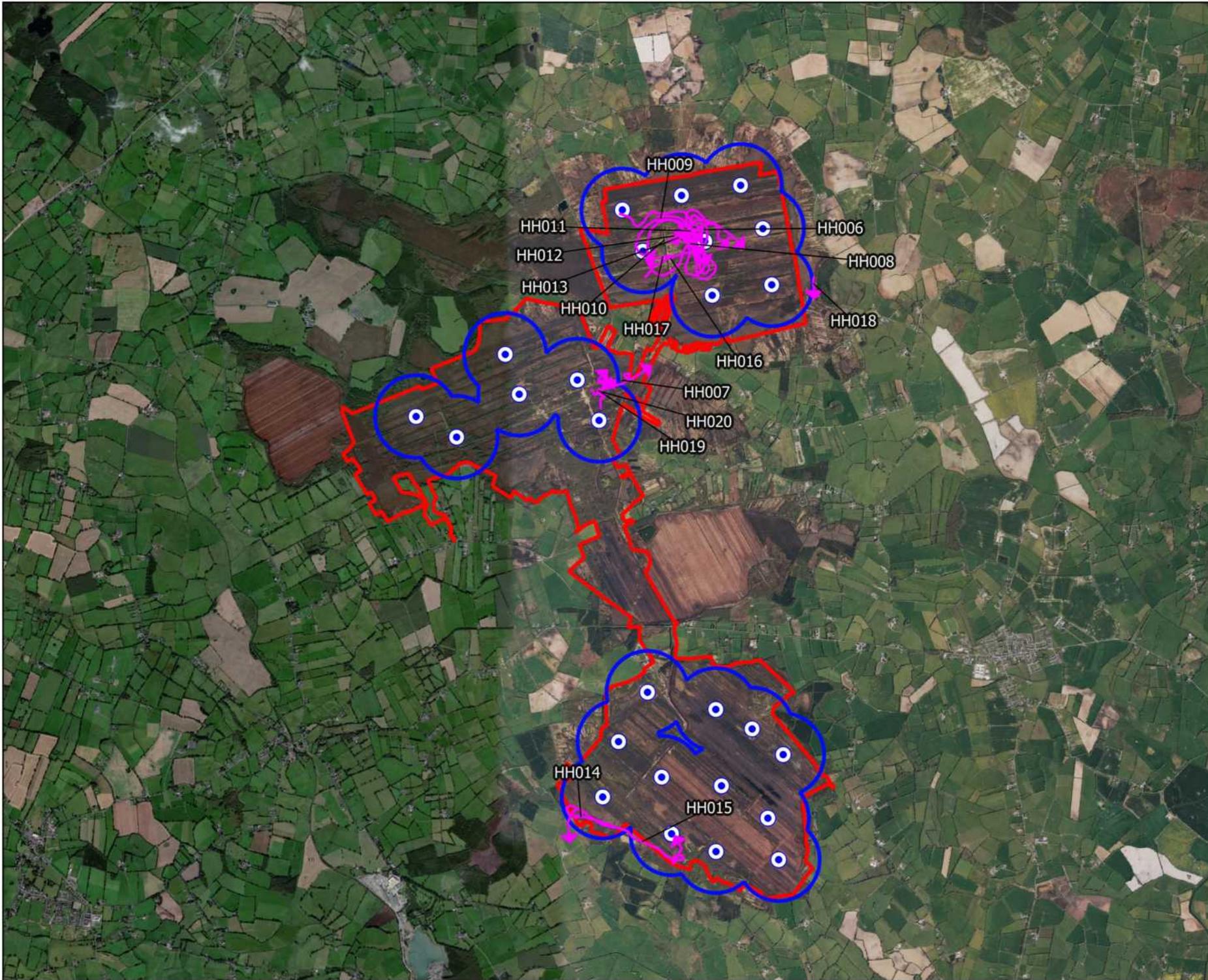
Table 3 Hen Harrier Survey Data

Vantage Point Surveys												
Map 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
HH007	VP7	02/11/2020	11:42	Hen Harrier	1	120	0	60	60	0	mixed broadleaved/conifer woodland and cutover bog; hunting, female/juv. mobbed by hooded crow	DM
HH006	VP4	03/11/2020	10:39	Hen Harrier	1	31	31	0	0	0	cutover bog and scrub; hunting, ringtail	DW
HH008	VP4	03/12/2020	16:28	Hen Harrier	1	382	350	32	0	0	cutover bog and scrub; hunting, ringtail	DW
HH009	VP5	17/12/2020	15:13	Hen Harrier	1	47	47	0	0	0	cutover bog and scrub; hunting, ringtail	DW
HH010	VP5	17/12/2020	15:54	Hen Harrier	1	32	32	0	0	0	cutover bog and immature woodland; hunting, ringtail. plumage seems quite pale. hunting in same loop as before	DW
HH011	VP4	11/03/2021	11:51	Hen Harrier	1	10	10	0	0	0	cutover bog and scrub; travelling, glimpsed through bushes. looked to be same pale ringtail recorded previously	DW
HH012	VP4	13/09/2021	15:35	Hen Harrier	1	7	7	0	0	0	cutover bog; flying, female bird observed flying at low altitude along the trees. heading south	CR
HH013	VP4	13/09/2021	16:21	Hen Harrier	1	10	10	0	0	0	cutover bog; flying, female, likely same bird that was observed at 15:35. heading east.	CR
HH014	VP16	19/10/2021	12:08	Hen Harrier	1	25	25	0	0	0	cutover bog, bog woodland and improved agricultural grassland; hunting, flushed snipe	KS
HH015	VP16	19/10/2021	12:15	Hen Harrier	1	40	40	0	0	0	cutover bog and bog woodland; hunting, mobbed by crow first then quartering low, may have landed	KS

Vantage Point Surveys												
Map 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
HH016	VP5	28/01/2022	13:31	Hen Harrier	1	50	50	0	50	0	bogs, marsh and scrub; travelling	JM
HH017	VP5	03/02/2022	08:25	Hen Harrier	1	15	15	0	15	0	cutover bog; travelling, ring tail travelling towards VP2	NM
HH018	VP6	04/02/2022	09:32	Hen Harrier	1	20	20	0	20	0	cutover bog; hunting, ring tail observed hunting along verges	NM
HH019	VP7	09/02/2022	12:07	Hen Harrier	1	15	15	0	15	0	bog woodland and cutover bog; travelling/hunting, adult female hunting and travelling low at woodland verge	NM
HH020	VP8	10/02/2022	08:36	Hen Harrier	1	40	5	20	25	0	cutover bog and bog woodland; travelling/mobbed, ring tail travelling was mobbed by three rooks	NM

Hen Harrier Roost Surveys								
Map Ref.	HHVP	Date	Time	Species	Number	Habitat and activity		Surveyor
HH001	HHVP2	06/12/2021	15:39	Hen Harrier	1	cutover bog, travelling, mobbed by crow, flew low to NE out of sight		KS
HH002	HHVP4	07/01/2022	15:10	Hen Harrier	1	cutover bog, heath and mixed broadleaved/conifer woodland, hunting, flying S, hunting low over ground. ringtail.		KS
HH003	HHVP4	07/01/2022	15:27	Hen Harrier	1	cutover bog, heath and mixed broadleaved/conifer woodland, hunting, hunting low over ground, flying in big loop. ringtail.		KS

Incidental Observations								
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity		Surveyor
HH001	Vantage Point Survey, 50m N from VP11	21/11/2021	10:45	Hen Harrier	1	scrub and cutover bog; ringtail on the scrub edge flew SE		TS
HH002	Hen Harrier Roost Survey, HHVP4	21/02/2022	16:48	Hen Harrier	1	raised bog, travelling, adult female seen travelling close to treeline		NM



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline



Drawing Title

Hen Harrier Observations
Vantage Point Surveys

Project Title

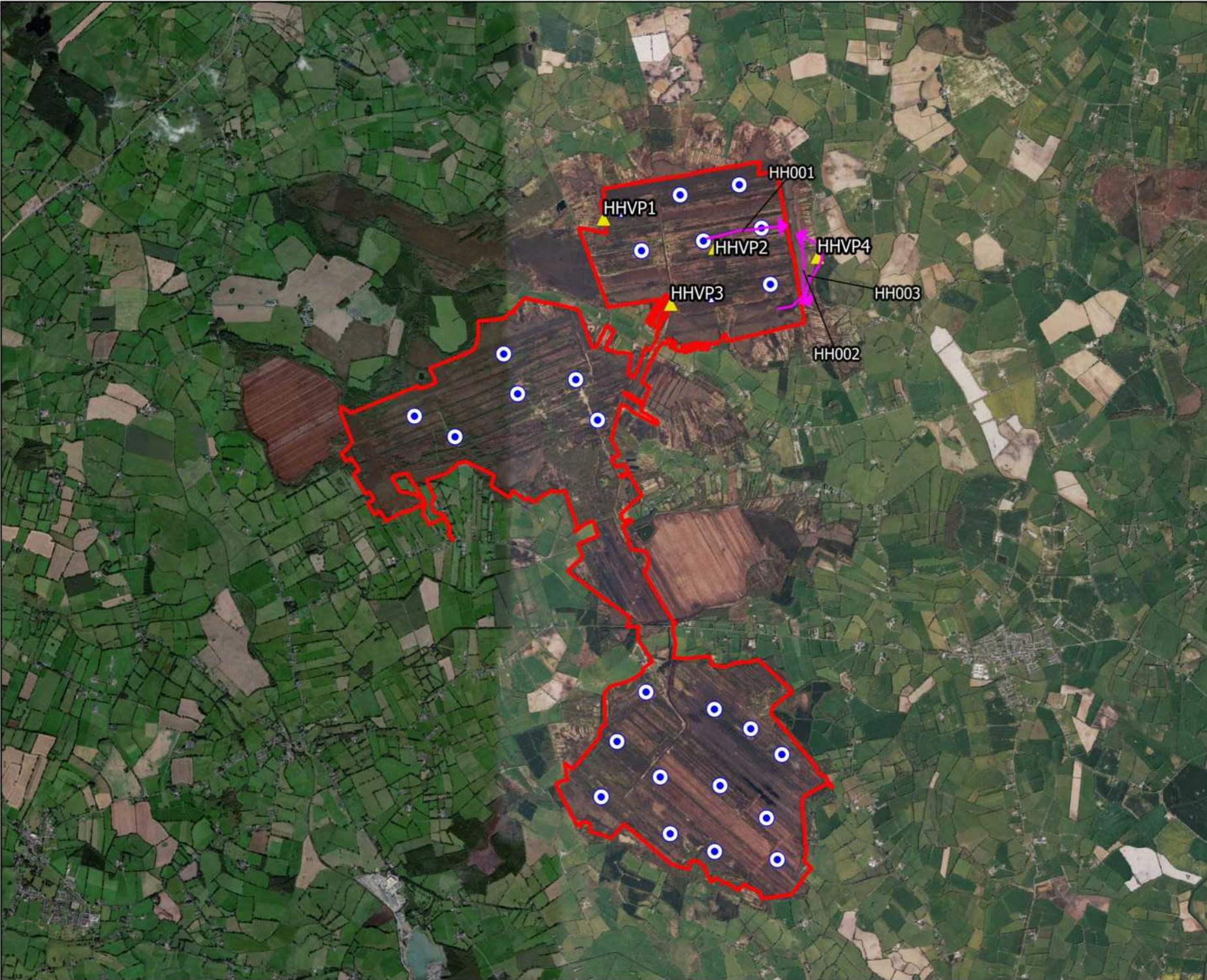
Ballivor Wind Farm

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- ▲ Hen Harrier Roost Vantage Point Locations
- Flightline



Drawing Title
**Hen Harrier Observations
 Hen Harrier Roost Surveys**

Project Title
Ballivor Wind Farm

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Project No. 191137	Drawing No. Fig. 7.101
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Flightline



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Drawing Title
**Hen Harrier
 Incidental Observations**

Project Title
Ballivor Wind Farm

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Project No. 191137	Drawing No. Fig. 7.12.2
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Table 4 Kingfisher Survey Data

Vantage Point Surveys												
Map 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
KF001	VP11	11/08/2020	19:00	Kingfisher	1	25	25	0	0	0	cutover bog; flew along silt pond	DM
KF002	VP11	16/11/2020	10:00	Kingfisher	1	45	45	0	0	0	cutover bog; flew along silt pond	DM

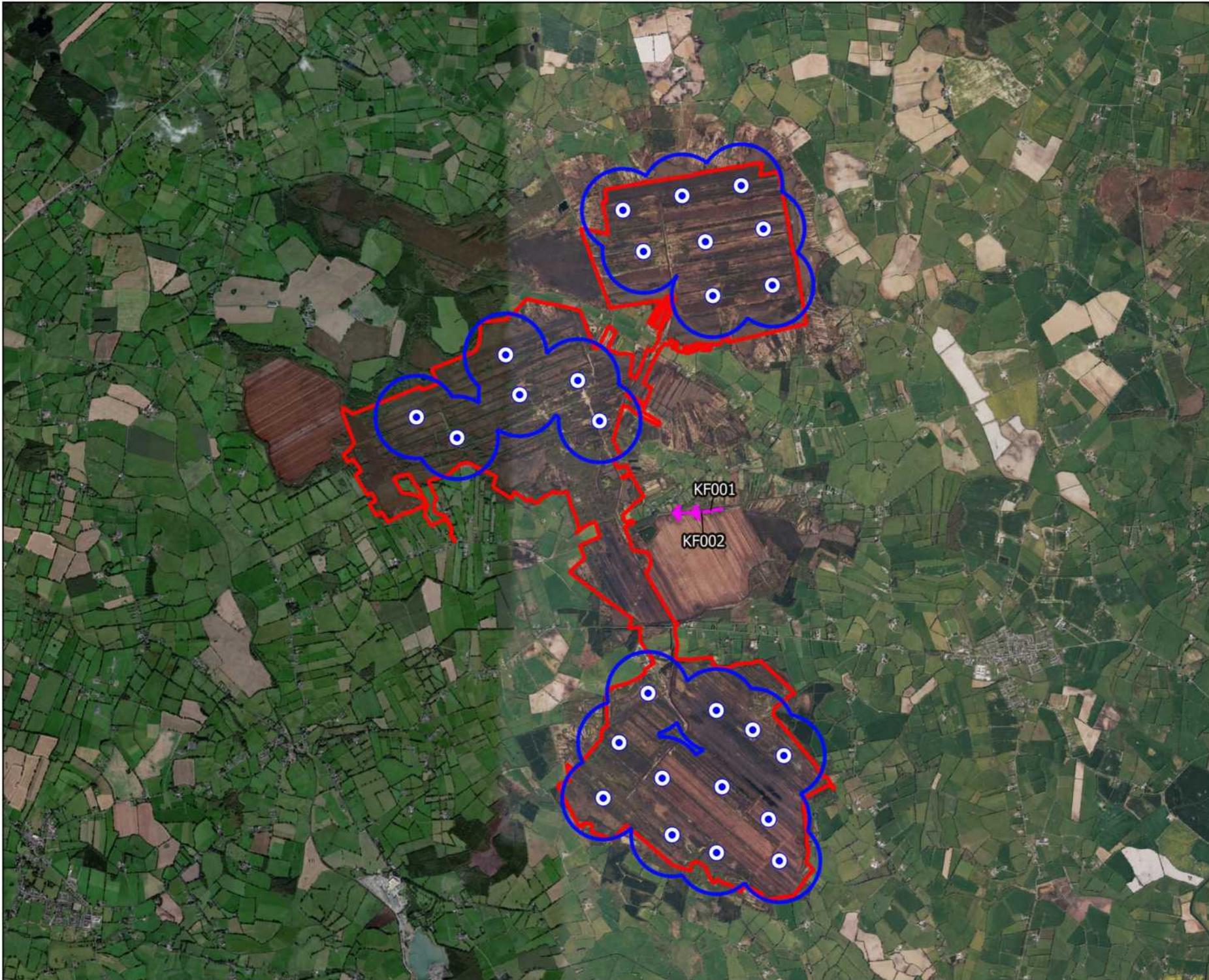
Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
KF001	11/07/2020	08:23	Kingfisher	1	cutover bog; flew low across bog to bank along channel	PT
KF002	11/07/2020	08:25	Kingfisher	1	cutover bog; flew back across bog	PT
KF003	16/07/2020	07:59	Kingfisher	1	cutover bog; flushed	PT
KF004	16/07/2020	12:22	Kingfisher	1		PT

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
KF001	Annalla Lakes	06/08/2020		Kingfisher	2	eutrophic lakes and tall-herb swamps; flying, flying and calling	PW
KF002	Hill of Down-Royal Canal	10/09/2020		Kingfisher	2	canals and hedgerows; aw, calling, perched and flying together past canal to hedge.	PW
KF003	Hill of Down-Royal Canal	10/09/2020		Kingfisher	1	canals; aw, calling, heard not seen.	PW
KF004	Killyon Church	10/09/2020		Kingfisher	1	depositing/lowland rivers; ow, calling	PW
KF005	River Deel 1	20/09/2021	12:50	Kingfisher	1	watercourses; travelling	TR
KF006	Annalla Lakes	15/10/2021	13:30	Kingfisher	1	lakes and ponds; feeding	DM
KF007	Annalla Lakes	09/11/2021	12:45	Kingfisher	1	lakes and ponds; feeding	DM

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
KF008	Crowinstown lake	13/12/2021	12:00	Kingfisher	1	lakes and ponds; hunting	DM
KF009	Annalla Lakes	13/12/2021	14:30	Kingfisher	1	lakes and ponds; hunting	DM
KF010	Deel River	28/12/2021	10:00	Kingfisher	1	depositing/lowland rivers; hunting	DM
KF011	River Deel	28/03/2022	09:30	Kingfisher	1	depositing/lowland rivers; travelling	DM
KF012	River Deel	07/09/2022	10:30	Kingfisher	1	depositing/lowland rivers; travelling	DM
KF013	Crowinstown lake	07/09/2022	12:00	Kingfisher	1	lakes and ponds; calling	DM
KF014	Reynella lake	07/09/2022	14:30	Kingfisher	1	lakes and ponds; feeding	DM
KF015	River Deel	26/09/2022	10:30	Kingfisher	1	depositing/lowland rivers; fishing	DM

Connectivity Vantage Point								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
KF001	CMVP5	25/11/2020		Kingfisher	1			KB

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
KF001	Vantage Point Survey, near entrance at level crossing	10/09/2020		Kingfisher	1		PC
KF002	Connectivity Vantage Point Survey, bridge over the River Deel near CMVP1	12/04/2022	08:40	Kingfisher	1	depositing/lowland rivers; in flight. flew under the bridge	EF
KF003	Vantage Point Survey, VP4	27/07/2022	16:50	Kingfisher	1	cutover bog and scrub; flying, flew from perch along channel on lane.	EF



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline



Drawing Title

Kingfisher Observations
Vantage Point Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.1.4

Scale

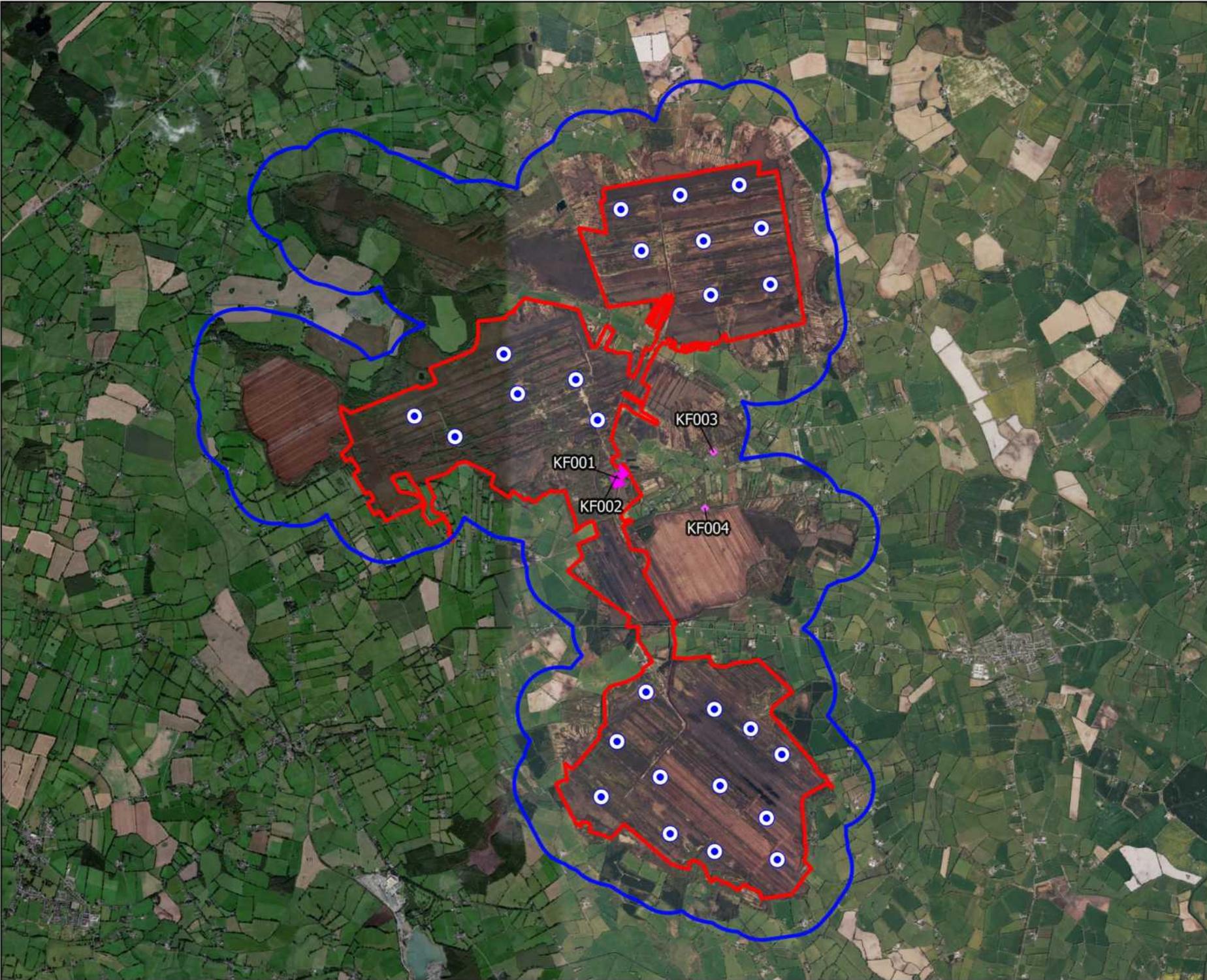
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Date

14.02.23



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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Survey Area
-  Flightline
-  Observation



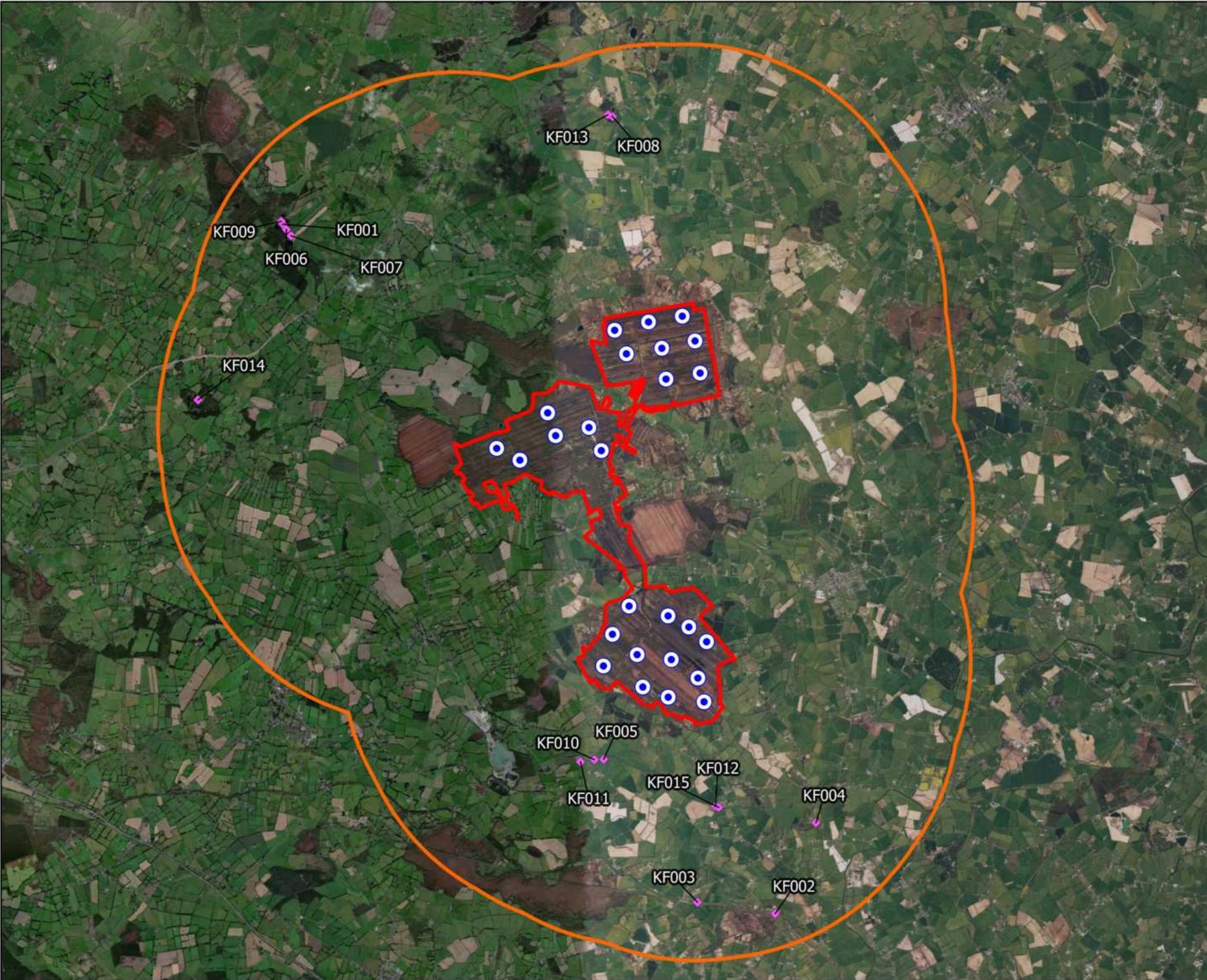
Kingfisher Observations
Breeding Walkover Surveys

Ballivor Wind Farm

Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.3.2
Scale	Date
1:60000	14.02.23



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Map Legend

- Wind Farm Site
- ⊙ Proposed Turbine Layout
- Survey Area
- ◆ Observation



Kingfisher Observations
Waterbird Distribution Surveys

Ballivor Wind Farm

Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.8.2
Scale	Date
1:105000	14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- ➔ Flightline
- ◆ Observation



Drawing Title

Kingfisher
Incidental Observations

Project Title

Ballivor Wind Farm

Drawn By
P. Manley

Checked By
P. Cregg

Project No.
191137

Drawing No.
Fig. 7.12.3

Scale
1:105000

Date
14.02.23



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Table 5 Little Egret Survey Data

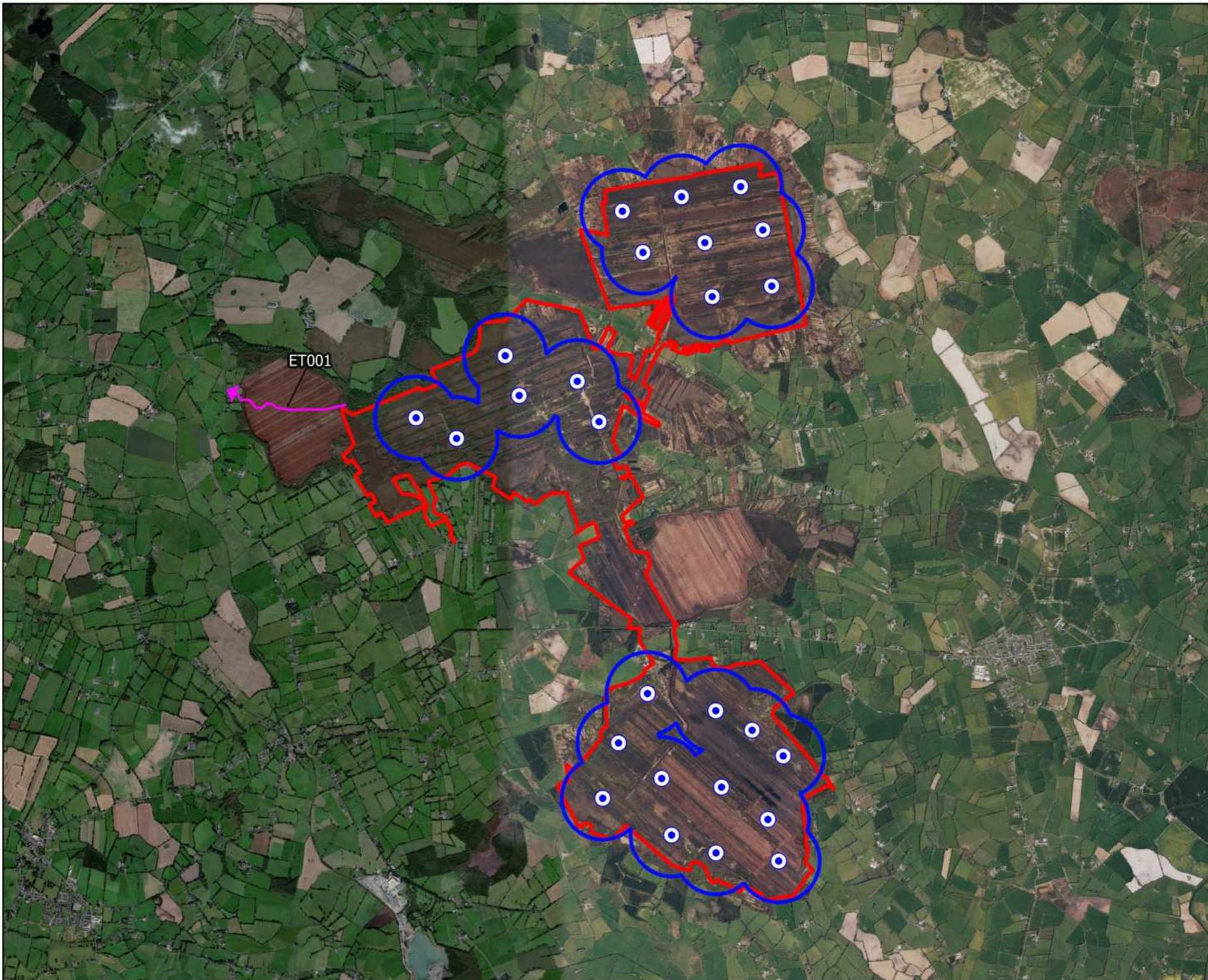
Vantage Point Surveys												
Map Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	Band 3 (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
ET001	VP10	28/11/2021	12:27	Little Egret	2	170	0	170	170	0	cutover bog;	TS

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
ET001	Cloncrave	24/11/2020		Little Egret	14	improved agricultural grassland; in wet grassland	DM
ET002	Cloncrave	30/12/2020		Little Egret	6	improved agricultural grassland; feeding/roosting, wet grassland	DM
ET003	Cloncrave	12/01/2021	08:20	Little Egret	7	improved agricultural grassland; feeding	DM
ET004	E of Killucan	28/01/2021	09:00	Little Egret	10	improved agricultural grassland; feeding, flooded field	DM
ET005	Cloncrave	28/12/2021	09:00	Little Egret	6	improved agricultural grassland; feeding, flooded field	DM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
ET001	CMVP5	08/12/2020	08:42	Little Egret	1	4	improved agricultural grassland; travelling	KB
ET002	CMVP5	05/01/2021	15:54	Little Egret	1	25	improved agricultural grassland; travelling	KB
ET003	CMVP5	26/11/2021	10:00	Little Egret	2	15	improved agricultural grassland and hedgerows; flying	TS



Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
ET004	CMVP5	20/12/2021	09:13	Little Egret	1	20	improved agricultural grassland; flying	TS



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline



Drawing Title

Little Egret Observations
Vantage Point Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.1.5

Scale

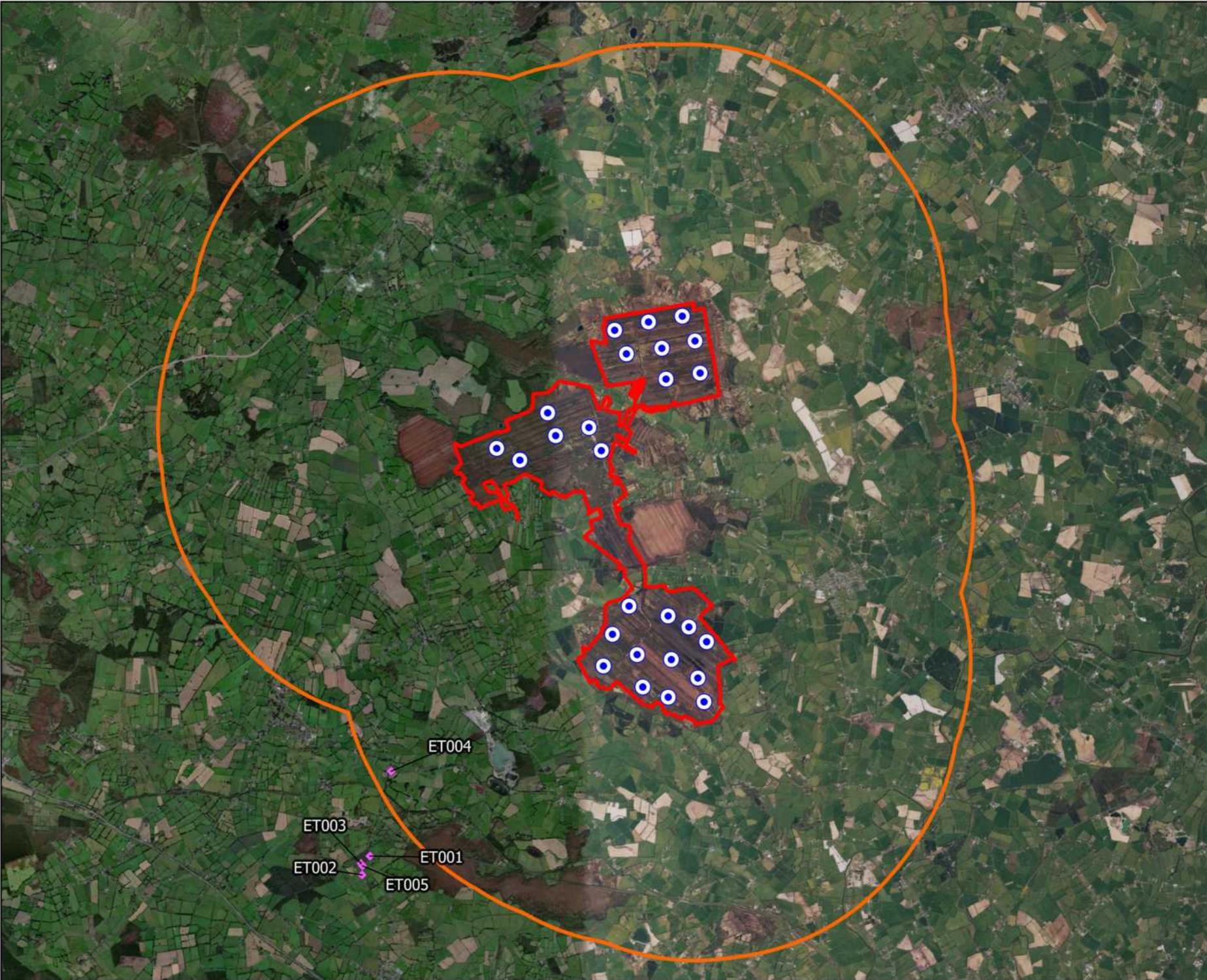
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Survey Area
-  Observation



Drawing Title
**Little Egret Observations
 Waterbird Distribution Surveys**

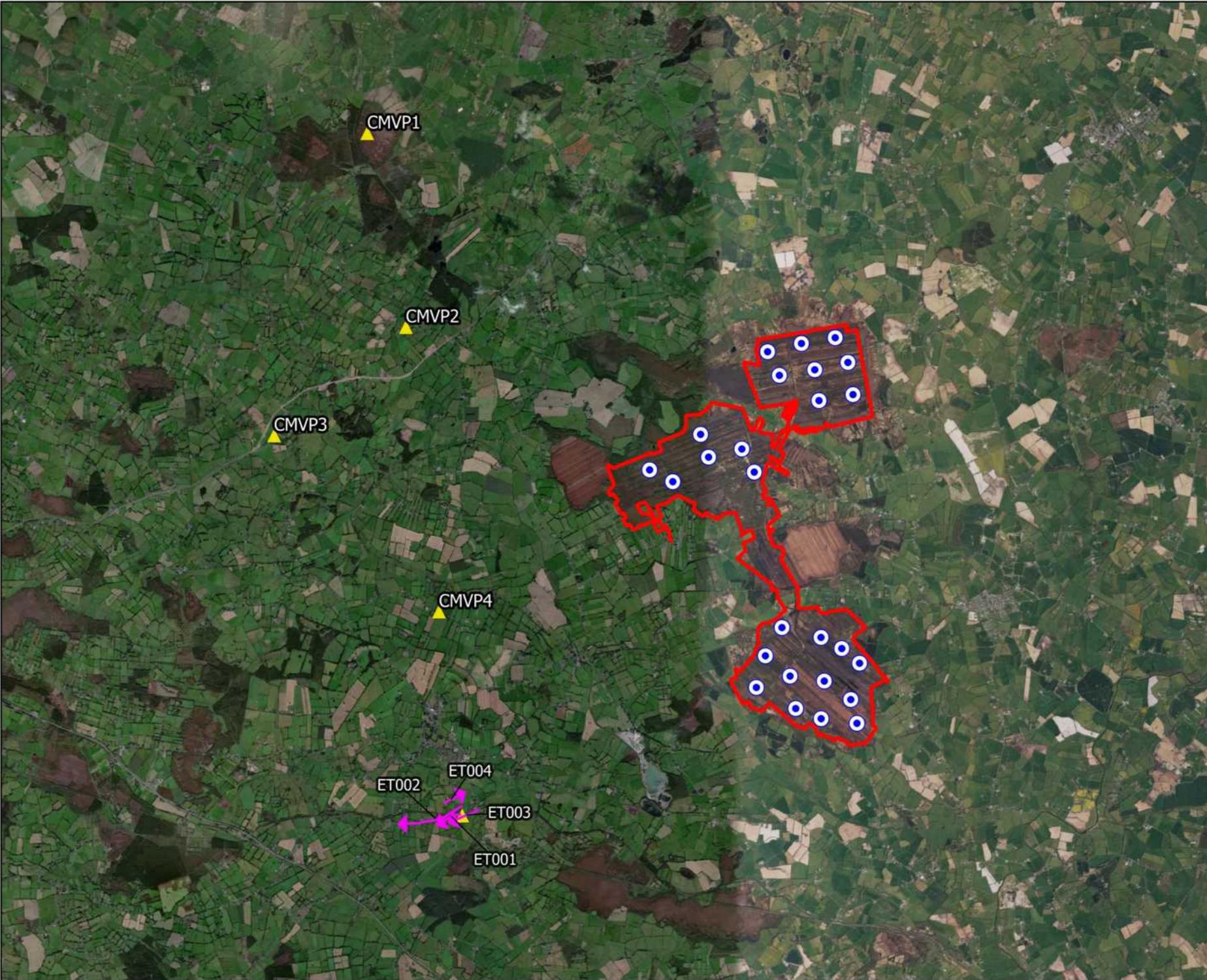
Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.8.3
Scale 1:105000	Date 14.02.23



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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- ▲ Connectivity Vantage Point Survey Location
- Flightline



Drawing Title

**Little Egret Observations
Connectivity VP Surveys**

Project Title

Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.9.2
Scale 1:105000	Date 14.02.23

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Table 6 Merlin Survey Data

Vantage Point Surveys												
Map 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
ML003	VP7	02/11/2020	11:55	Merlin	1	30	30	0	0	0	mixed broadleaved/conifer woodland and cutover bog; hunting, flew behind birch trees	DM
ML002	VP15	03/11/2020	13:01	Merlin	1	117	0	5	112	0	cutover bog; flying, circling, hunting, female	PW
ML004	VP10	09/11/2020	10:15	Merlin	1	30	30	0	0	0	cutover bog; landed on peat pile, female	DM
ML005	VP16	10/11/2020	07:40	Merlin	1	5	5	0	0	0	cutover bog; flying around bog, took up from ground beside VP, heading south and landed back down on bog just north of treeline	KB
ML006	VP14	06/01/2021	08:19	Merlin	1	45	0	45	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, probably roosted on bog	DM
ML007	VP14	06/01/2021	11:51	Merlin	1	65	30	35	0	0	cutover bog; travelling, male with prey	DM
ML008	VP11	11/01/2021	11:21	Merlin	1	60	60	0	0	0	cutover bog; hunting	DM
ML009	VP16	11/01/2021	13:43	Merlin	1	25	0	25	0	0	cutover bog; travelling, undulating "thrush-like" flight	KB
ML012	VP13	06/05/2021	06:50	Merlin	1	3	3	0	0	0	cutover bog and scrub; travelling/foraging - landed on a tree, perched for 19min	KB
ML013	VP13	06/05/2021	07:09	Merlin	1	12	12	0	0	0	cutover bog; foraging	KB
ML014	VP16	25/09/2021	14:59	Merlin	1	225	5	10	210	0	bogs; soaring then dropping, flushing flock of finches	DW
ML015	VP1	20/10/2021	13:05	Merlin	1	120	120	0	0	0	bogs; hunting/flying/perching, female merlin	JM
ML016	VP12	20/11/2021	12:05	Merlin	1	40	40	0	40	0	cutover bog and scrub; short interaction with HC lost behind scrub	TS
ML017	VP3	05/01/2022	16:09	Merlin	1	11	5	6	11	0	bogs; travelling	JM

Vantage Point Surveys												
Map 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
ML018	VP9	11/02/2022	08:41	Merlin	1	40	15	4	19	0	cutover bog and bog woodland; hunting/travelling, female seen flying acrobatic low to the ground	NM
ML019	VP15	14/02/2022	12:08	Merlin	1	15	15	0	15	0	cutover bog and bog woodland; travelling	KS
ML020	VP12	13/03/2022	18:22	Merlin	1	6	6	0	6	0	cutover bog; foraging	KB
ML021	VP12	13/03/2022	18:28	Merlin	1	5	5	0	5	0	cutover bog; foraging	KB

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
ML010	VP13	23/03/2021	12:16	Merlin	1	cutover bog and scrub; perched on top of dead birch tree along edge of bog expanse and above heather scrub	NM
ML011	VP9	29/03/2021	10:40	Merlin	1	immature woodland and bog woodland; perched on top of dead birch at fringe of bog woodland	NM

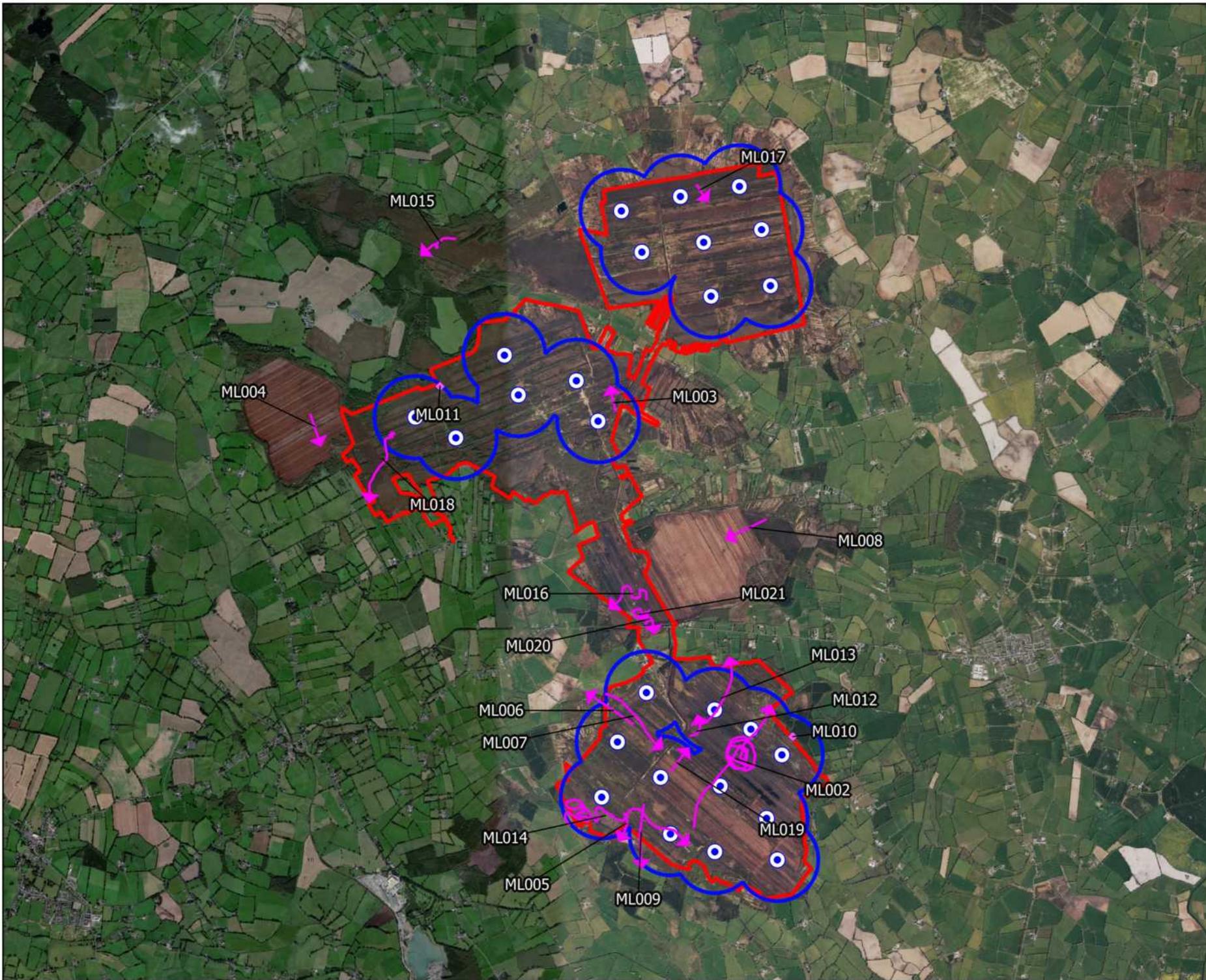
Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
ML001	01/04/2021	12:45	Merlin	1	cutover bog and scrub; hunting (suitable nesting habitat; possible breeder)	DW

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
ML001	26/02/2021	08:29	Merlin	1	cutover bog and bog woodland; direct flight,	PT

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
ML002	26/02/2021	09:52	Merlin	1	grassland and marsh; in flight,	PT
ML003	30/11/2021	12:07	Merlin	1	cutover bog; perched/flying, perched on bog initially. eventually flew up on peat pile before flying further east toward woodland	IH

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
ML001	CMVP5	23/10/2021	10:02	Merlin	1	120	improved agricultural grassland, treelines and canals; hunting, chasing a chaffinch	TS

Incidental Observations								
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor	
ML001	Waterbird Distribution Survey,	15/03/2021	16:28	Merlin	2	cutover bog; flying low and rapidly over cutover bog, chasing one another, behaviour may indicate courting and possibly breeding	NM	
ML002	Waterbird Distribution Survey,	30/03/2021	18:11	Merlin	1	raised bog and scrub; flying and swooping low and rapidly across bog and along scrub / birch perimeter, chasing MP	NM	
ML003	Waterbird Distribution Survey, N. of Ballivor	26/11/2021	10:30	Merlin	1	improved agricultural grassland; hunting	DM	
ML004	Hen Harrier Roost Survey, HHVP1	31/01/2022	15:11	Merlin	1	cutover bog; in flight, flew low across viewshed towards the south of bog. lost from view behind woodland	IH	
ML005	Hen Harrier Roost Survey, HHVP1	31/01/2022	16:18	Merlin	1	cutover bog: hunting, ml chasing two passerines towards surveyor, ML turned away and flew east	IH	



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline
- ◆ Observation



Drawing Title

Merlin Observations
Vantage Point Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.1.6

Scale

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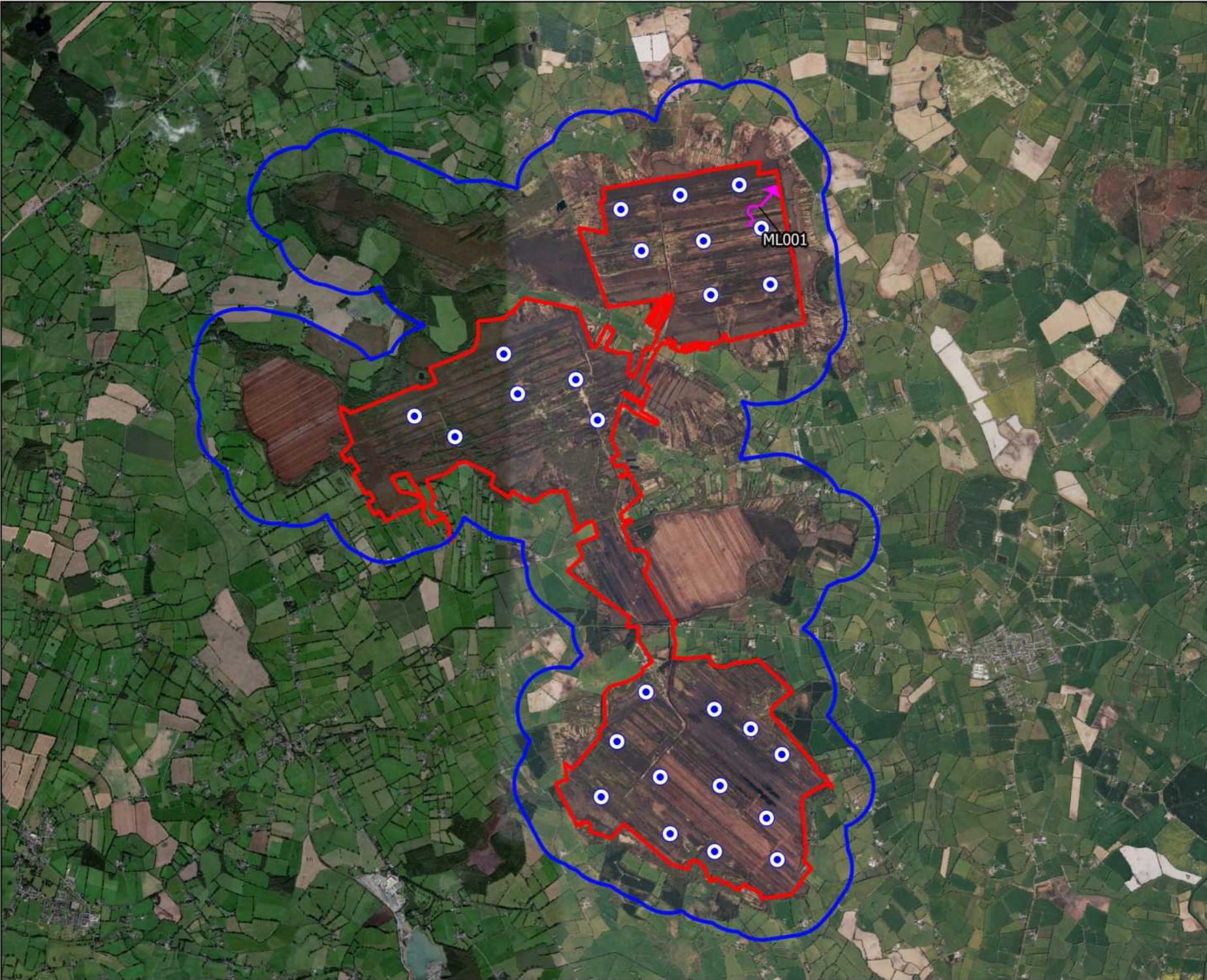
Date

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline



Drawing Title

**Merlin Observations
Breeding Walkover Surveys**

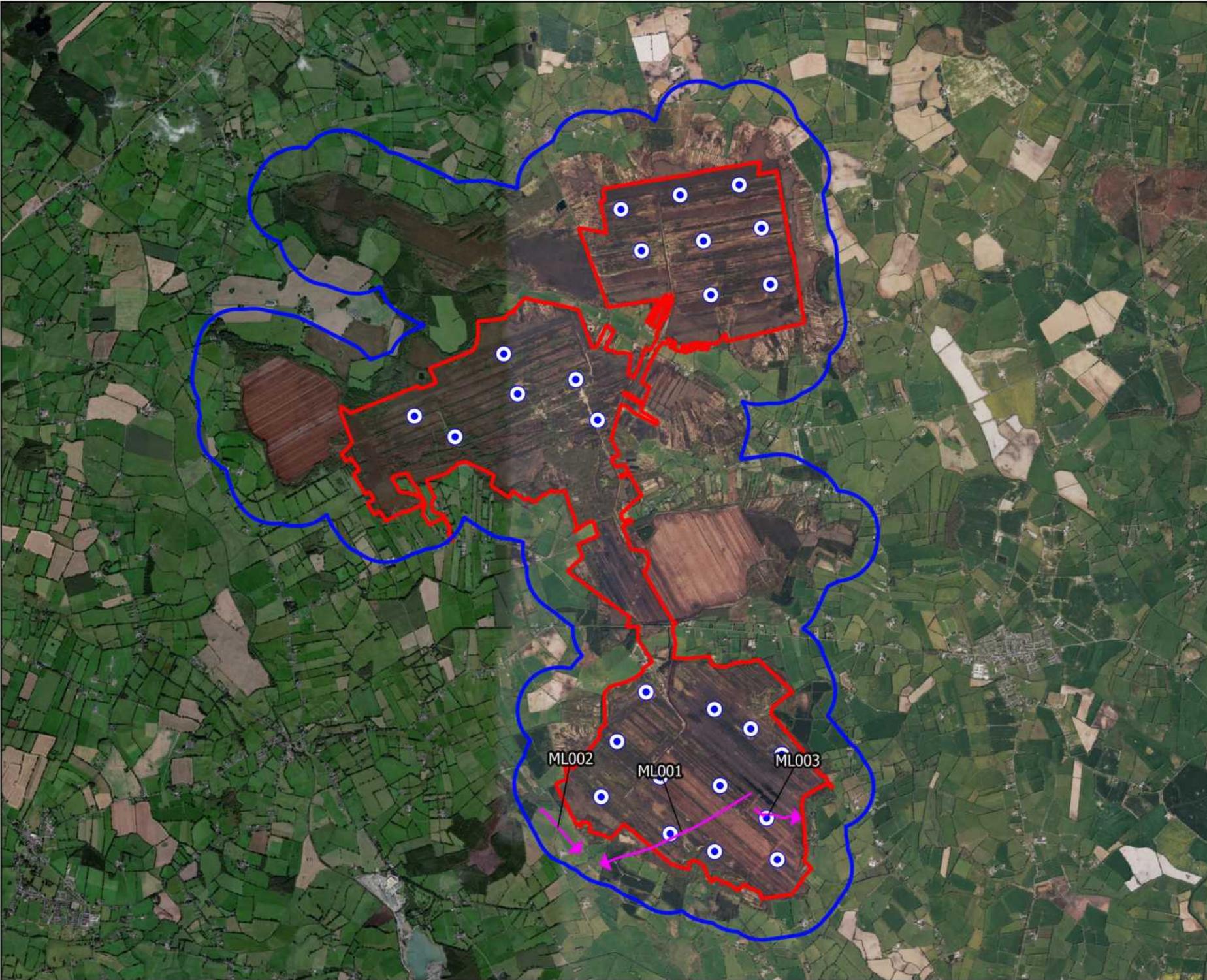
Project Title

Ballivor Wind Farm

Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.3.3
Scale	Date
1:60000	14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline



Drawing Title Merlin Observations Winter Walkover Surveys	
Project Title Ballivor Wind Farm	
Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.7.2
Scale 1:60000	Date 14.02.23
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Connectivity Vantage Point Survey Location
-  Flightline



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Drawing Title
Merlin Observations
Connectivity VP Surveys

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.9.3
Scale 1:105000	Date 14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- ➔ Flightline



<p>Merlin Incidental Observations</p>	
<p>Ballivor Wind Farm</p>	
<p>Drawn By P. Manley</p>	<p>Checked By P. Cregg</p>
<p>Project No. 191137</p>	<p>Drawing No. Fig. 7.12.4</p>
<p>Scale 1:60000</p>	<p>Date 14.02.23</p>
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Table 7 Peregrine Falcon Survey Data

Vantage Point Surveys												
Map Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	PCH (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
PE010	VP8	27/04/2020	13:35	Peregrine Falcon	1	17		17			bog woodland and bogs; travelled quickly over viewshed away from VP	PC
PE011	VP12	12/05/2020	10:25	Peregrine Falcon	1	320			200	120	mixed broadleaved/conifer woodland and cutover bog; hunting, circling	DM
PE012	VP13	09/07/2020	08:56	Peregrine Falcon	1	20	20				cutover bog; flew low from peat pile to behind other peat pile	DM
PE013	VP15	18/08/2020	16:08	Peregrine Falcon	1	20	20				cutover bog; chasing small passerine; landed on bare cutover	PT
PE014	VP15	18/08/2020	16:14	Peregrine Falcon	1	40	40				cutover bog; low flight	PT
PE015	VP15	18/08/2020	16:18	Peregrine Falcon	1	330		15	315		improved agricultural grassland, woodland and scrub and cutover bog; initially circling, 50 metres, climbing to 125m, dropped low at end of observation	PT
PE016	VP2	29/08/2020	19:03	Peregrine Falcon	1	78	37	41			raised bog and scrub; flying low and fast along bog and scrubby birch trees at edge of intact bog.	PW
PE017	VP2	29/08/2020	19:11	Peregrine Falcon	1	423			423		raised bog and mixed broadleaved woodland; flying at PCH, circled twice. lost from view at distance.	PW
PE018	VP10	08/09/2020	06:40	Peregrine Falcon	1	35	15	20			cutover bog and mixed broadleaved/conifer woodland; travelling-landed on peat bog, adult	DM
PE019	VP10	08/09/2020	06:43	Peregrine Falcon	1	55	20	35			cutover bog; travelling-descended behind peat pile, adult	DM
PE020	VP10	08/09/2020	07:25	Peregrine Falcon	1	35	35				cutover bog; travelling-descended behind peat pile, adult	DM
PE025	VP15	11/09/2020	08:37	Peregrine Falcon	1	12	12				bogs and bog woodland; flew across from bog to south, not sure exactly where from, over railway track and headed in northerly direction. think it was adult male from size.	PC
PE021	VP13	15/09/2020	08:05	Peregrine Falcon	1	250		50	200		cutover bog and mixed broadleaved/conifer woodland; travelling, adult	DM

Vantage Point Surveys												
Map Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	PCH (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
PE022	VP13	15/09/2020	08:50	Peregrine Falcon	2	135	10	10	115		cutover bog and mixed broadleaved/conifer woodland; travelling-dropped rapidly to bog	DM
PE023	VP12	18/09/2020	09:35	Peregrine Falcon	1	160		60	100		cutover bog and mixed broadleaved/conifer woodland; travelling- mobbed by crow, juv.	DM
PE024	VP1	30/09/2020	08:15	Peregrine Falcon	1	116	0	0	116	0	improved agricultural grassland, conifer plantation and cutover bog; travelling	DW
PE030	VP13	16/10/2020	14:25	Peregrine Falcon	2	5	5	0	0	0	cutover bog and scrub; interacting in flight. perched on ground. Two juveniles flew into viewshed over scrub to the east of VP, flying low interacting with each other and landed on the bog. stayed down for several minutes, took up again and landed for another few minutes before flying away south-eastwards	KB
PE031	VP13	16/10/2020	14:47	Peregrine Falcon	1	10	10	0	0	0	cutover bog and scrub; perched on mound. flew away eastwards, first observed at 13:32 perched on a mound of turf in front of VP. took up flying low to the east. landed on ground for several minutes before flying away south-eastwards. lost from view beyond scrub	KB
PE032	VP10	22/10/2020	13:48	Peregrine Falcon	1	180	0	0	180	0	cutover bog, mixed broadleaved/conifer woodland and immature woodland; foraging, adult foraging, pausing to hover throughout flight, disappeared from view behind VP	KB
PE029	VP3	23/10/2020	13:03	Peregrine Falcon	1	37	37	0	0	0	bogs and conifer plantation; travelling	DW
PE026	VP16	30/10/2020		Peregrine Falcon	1	30	30	0	0	0	cutover bog; hunting golden plover	JK
PE027	VP16	30/10/2020		Peregrine Falcon	2	45	0	45	0	0	cutover bog; calling	JK
PE028	VP16	30/10/2020		Peregrine Falcon	2	35	35	0	0	0	cutover bog; adult chasing juvenile	JK

Vantage Point Surveys												
Map Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	PCH (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
PE033	VP7	02/11/2020	12:55	Peregrine Falcon	1	45	0	45	0	0	cutover bog; hunting	DM
PE034	VP10	09/11/2020	11:13	Peregrine Falcon	1	35	0	0	35	0	mixed broadleaved/conifer woodland and cutover bog, travelling	DM
PE039	VP16	10/11/2020	08:33	Peregrine Falcon	1	20	0	0	20	0	cutover bog; travelling	KB
PE035	VP8	13/11/2020	08:05	Peregrine Falcon	1	120	0	20	100	0	mixed broadleaved/conifer woodland and cutover bog; hunting, juv. hunting wood pigeon flock	DM
PE036	VP12	17/11/2020	08:08	Peregrine Falcon	1	65	0	65	0	0	cutover bog; travelling	DM
PE037	VP12	17/11/2020	09:42	Peregrine Falcon	1	75	0	0	75	0	cutover bog; travelling	DM
PE038	VP6	25/11/2020	12:04	Peregrine Falcon	1	95	0	0	95	0	cutover bog; travelling	DM
PE040	VP3	14/12/2020	11:28	Peregrine Falcon	1	12	12	0	0	0	mixed broadleaved woodland and scrub; hunting	DW
PE041	VP3	14/12/2020	12:03	Peregrine Falcon	2	151	130	21	0	0	cutover bog and scrub; chasing each other, calling	DW
PE042	VP13	15/12/2020	12:01	Peregrine Falcon	1	60	0	0	60	0	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
PE043	VP13	15/12/2020	13:04	Peregrine Falcon	1	100	100	0	0	0	cutover bog; flew low over cutaway bog	DM
PE051	VP13	08/01/2021	13:29	Peregrine Falcon	1	56	10	30	16	0	cutover bog; travelling, ad-landed on bog	DM
PE052	VP13	08/01/2021	13:31	Peregrine Falcon	1	80	30	30	20	0	cutover bog; travelling, ad-landed on bog	DM
PE053	VP13	08/01/2021	13:35	Peregrine Falcon	2	280	0	100	180	0	cutover bog; 1 circling, 1 landed on bog	DM
PE044	VP3	15/01/2021	12:59	Peregrine Falcon	1	231	11	150	70	0	improved agricultural grassland; hunting, half diving and pulling up on multiple occasions	DW
PE045	VP6	21/01/2021	13:01	Peregrine Falcon	1	130	100	30	0	0	cutover bog; hunting low over bog, 70 seconds of flight behind viewshed	DW

Vantage Point Surveys												
Map Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	PCH (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
PE054	VP16	22/01/2021	09:32	Peregrine Falcon	1	20	5	15	0	0	cutover bog; travelling adult	KB
PE046	VP5	27/01/2021	09:51	Peregrine Falcon	2	109	0	29	80	0	cutover bog; travelling, interacting together, likely young birds	DW
PE047	VP1	28/01/2021	07:55	Peregrine Falcon	1	67	0	37	30	0	cutover bog, conifer plantation and improved agricultural grassland; travelling	DW
PE048	VP1	28/01/2021	11:00	Peregrine Falcon	1	47	17	30	0	0	mixed broadleaved woodland; travelling	DW
PE049	VP1	28/01/2021	12:03	Peregrine Falcon	1	38	0	30	8	0	cutover bog and improved agricultural grassland; travelling	DW
PE050	VP1	28/01/2021	12:40	Peregrine Falcon	1	133	20	80	33	0	cutover bog, mixed broadleaved woodland and improved agricultural grassland; travelling, looked to be young bird. likely same one seen throughout morning	DW
PE055	VP4	11/03/2021	07:02	Peregrine Falcon	1	285	0	85	200	0	cutover bog and scrub; hunting	DW
PE059	VP11	07/05/2021	05:39	Peregrine Falcon	1	35	0	35	0	0	cutover bog and immature woodland; travelling/foraging	KB
PE062	VP12	17/06/2021	14:10	Peregrine Falcon	1	3538	44	80	899	2515	cutover bog, recolonising bare ground and conifer plantation; hunting by circling soaring flying & stooping. Lost from view behind treeline before flying back and landing on bog, peregrine hunting circling with two buzzard over VP mobbed them briefly before soaring higher to above PCH. stooped onto cutover after prey flying fast and low but failed to catch it. then flew climbing higher circling to above PCH again and stooped to SE of the VP.	PW
PE060	VP12	17/06/2021	17:04	Peregrine Falcon	1	551	0	35	516	0	cutover bog, recolonising bare ground and treelines; flying hunting and circling hunting.	PW
PE061	VP12	17/06/2021	18:55	Peregrine Falcon	1	749	0	0	492	257	cutover bog, recolonising bare ground and scrub; hunting flying, soaring circling. gliding and then	PW

Vantage Point Surveys												
Map Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	PCH (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
											stooping diving., gal. came in over bog flying fast turned and hunted a flock of corvids passing over bog. failed to catch one. then began soaring circling higher and higher until gliding, turning and dropping in height and then a full stoop below treeline out of view.	
PE063	VP14	19/08/2021	16:06	Peregrine Falcon	1	510	0	0	510	0	cutover bog, mixed broadleaved woodland and improved agricultural grassland; soaring and gaining height, then travelling with second pe, second pe after few minutes, both calling and swooping together, then travelling s	DW
PE064	VP14	19/08/2021	16:11	Peregrine Falcon	1	175	0	0	175	0	cutover bog; swooping and calling with first pe, then travelling S, looked smaller, likely a male	DW
PE065	VP10	31/08/2021	13:07	Peregrine Falcon	1	10	0	10	0	0	mixed broadleaved/conifer woodland and cutover bog; foraging	KB
PE066	VP12	12/10/2021	08:24	Peregrine Falcon	1	20	20	0	0	0	cutover bog and conifer plantation; hunting, hunting, landed on bog	KS
PE067	VP12	12/10/2021	09:01	Peregrine Falcon	1	44	44	0	0	0	cutover bog and conifer plantation; travelling	KS
PE068	VP12	12/10/2021	13:14	Peregrine Falcon	1	20	20	0	0	0	cutover bog and conifer plantation; landed on bog	KS
PE069	VP13	13/10/2021	08:40	Peregrine Falcon	1	12	12	0	0	0	cutover bog and conifer plantation; flushed from ground	KS
PE070	VP8	09/11/2021	08:02	Peregrine Falcon	1	10	0	10	10	0	cutover bog and immature woodland; foraging	KB
PE071	VP16	18/11/2021	11:59	Peregrine Falcon	1	40	40	0	40	0	cutover bog, bog woodland and mixed broadleaved/conifer woodland; travelling	KS
PE072	VP11	21/11/2021	15:54	Peregrine Falcon	1	120	10	100	110	0	cutover bog; clipped HC on the way!	TS
PE073	VP10	28/11/2021	10:39	Peregrine Falcon	1	150	40	100	140	0	cutover bog, treelines and scrub; local man mentioned PE nesting in the adjacent wooded area NW	TS

Vantage Point Surveys												
Map Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	PCH (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
PE074	VP13	14/12/2021	12:14	Peregrine Falcon	1	60	60	0	60	0	cutover bog and mixed broadleaved/conifer woodland; hunting, mobbing/diving at k, landed on bog	KS
PE075	VP13	14/12/2021	12:26	Peregrine Falcon	1	10	10	0	10	0	cutover bog; travelling, same bird, moved from perch to open bog	KS
PE076	VP16	23/12/2021	11:02	Peregrine Falcon	2	30	30	0	30	0	mixed broadleaved/conifer woodland and cutover bog; travelling, both calling, possibly 1 adult/1juv?	KS
PE077	VP16	23/12/2021	11:54	Peregrine Falcon	2	30	30	0	30	0	mixed broadleaved/conifer woodland and cutover bog; flushed from perch in trees, one bird quick flight NW, calling	KS
PE078	VP16	23/12/2021	12:41	Peregrine Falcon	1	20	20	0	20	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
PE079	VP14	10/01/2022	14:57	Peregrine Falcon	1	35	35	0	35	0	cutover bog and bog woodland; hunting, low along ground, male	KS
PE080	VP10	17/01/2022	16:51	Peregrine Falcon	1	20	0	0	0	0	cutover bog; foraging	KB
PE081	VP13	18/01/2022	12:55	Peregrine Falcon	1	30	30	0	30	0	cutover bog; landing, out of sight behind dip	KS
PE082	VP13	18/01/2022	13:07	Peregrine Falcon	1	125	90	35	125	0	cutover bog and mixed broadleaved/conifer woodland; travelling, same bird, flushed	KS
PE083	VP15	25/01/2022	12:40	Peregrine Falcon	1	30	30	0	30	0	cutover bog and bog woodland; travelling	KS
PE084	VP2	11/08/2022	13:05	Peregrine Falcon	2	90	0	90	90	0	cutover bog; chasing, 1 adult, 1 juv. chasing, mobbing	KS
PE085	VP12	29/08/2022	13:25	Peregrine Falcon	1	7	7	0	7	0	cutover bog and scrub; flying, seen briefly. landed on ground out of view	EF
PE086	VP12	29/08/2022	15:05	Peregrine Falcon	1	60	0	0	0	0	cutover bog and scrub; direct flight and circling, lost view	EF
PE087	VP13	30/08/2022	11:02	Peregrine Falcon	1	25	25	0	25	0	cutover bog; travelling, descending, mobbed by raven	KS
PE088	VP15	30/08/2022	11:03	Peregrine Falcon	2	280	0	0	0	0	cutover bog; chasing, 1 adult, 1 juv.: chasing, mobbing, calling	KS

Vantage Point Surveys												
Map Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	PCH (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
PE089	VP16	02/09/2022	12:30	Peregrine Falcon	1	25	25	0	25	0	cutover bog; travelling, juv.	KS
PE090	VP13	08/09/2022	18:37	Peregrine Falcon	1	15	15	0	15	0	cutover bog; landed on ground, preening, stayed on ground for ~30mins	KS
PE091	VP15	20/09/2022	12:23	Peregrine Falcon	1	60	0	20	20	0	cutover bog; mobbing crows	KS
PE092	VP1	21/09/2022	09:55	Peregrine Falcon	1	35	0	35	35	0	cutover bog and mixed broadleaved/conifer woodland; travelling, adult	KS
PE093	VP5	29/09/2022	13:10	Peregrine Falcon	1	15	0	5	5	0	heath and scrub; direct flight, lost behind scrub/trees	EF
PE094	VP13	30/09/2022	14:14	Peregrine Falcon	1	90	0	90	90	0	cutover bog and mixed broadleaved/conifer woodland; travelling, adult	KS

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
PE056	VP10	08/09/2020	07:35	Peregrine Falcon	1	cutover bog; perched on peat bog, adult	DM
PE057	VP13	15/09/2020	07:20	Peregrine Falcon	1	cutover bog; perched on peat pile, adult	DM
PE058	VP13	15/12/2020	12:42	Peregrine Falcon	1	cutover bog; sitting on peat pile	DM
PE095	VP4	22/09/2022	14:00	Peregrine Falcon	1	cutover bog: perched/preening/mobbed, bird observed perched on tower mobbed on occasion by swallows	NM

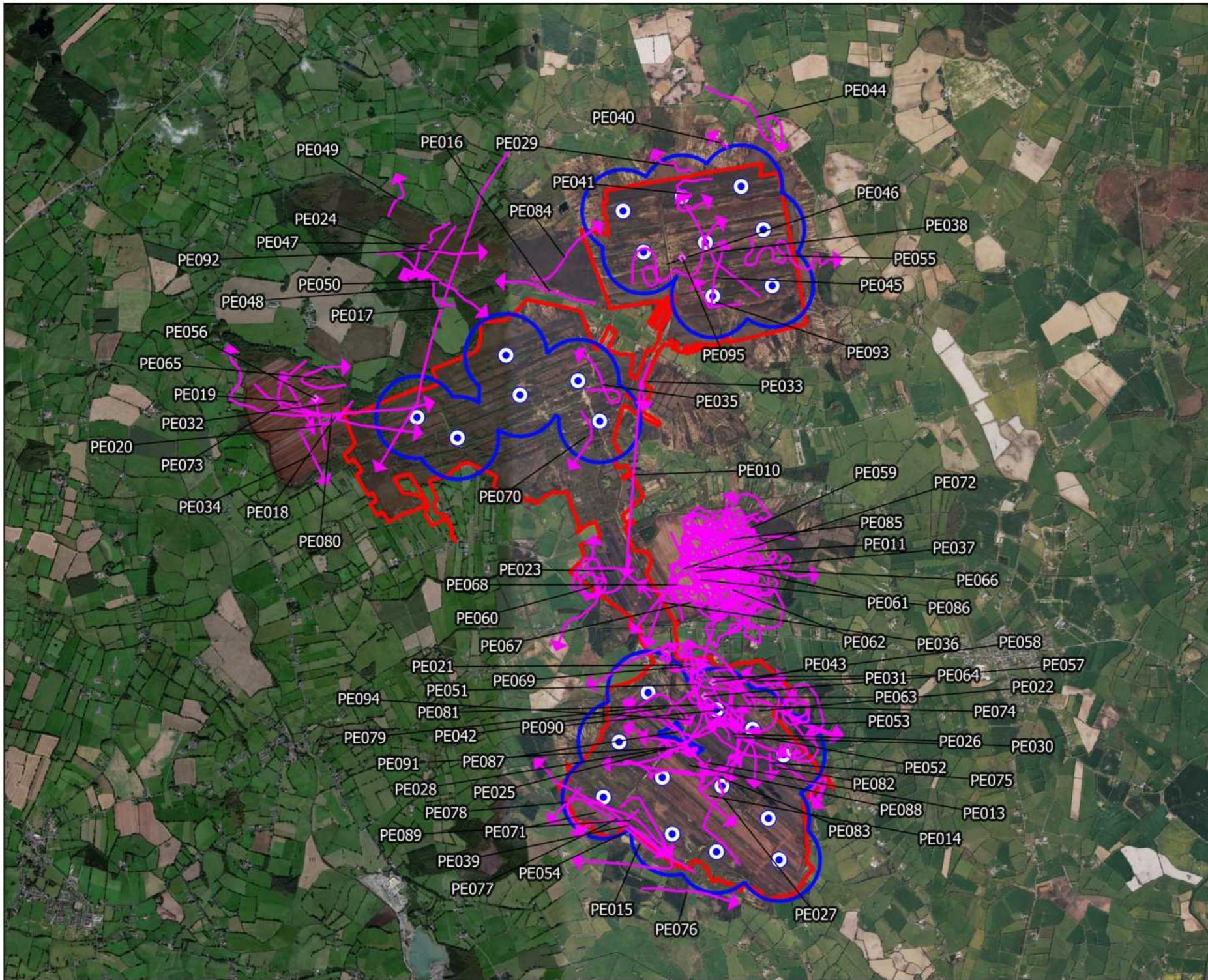
Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
PE001	11/05/2020	13:45	Peregrine Falcon	1	cutover bog, raised bog and improved agricultural grassland; initially low then circled up very high	PT

Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
PE002	11/05/2020	19:28	Peregrine Falcon	1	cutover bog; sat on sparsely vegetated cutover.	PT
PE003	07/04/2021	10:17	Peregrine Falcon	1	cutover bog and scrub; travelling (suitable nesting habitat; possible breeder)	DW
PE004	29/04/2022	15:33	Peregrine Falcon	1	cutover bog: plucking feathers of kill/ flushed flight, bird observed plucking a killed pigeon (suitable nesting habitat; possible breeder)	NM
PE005	29/04/2022	16:59	Peregrine Falcon	1	cutover bog: perched, bird seen perched 50 metres up on tower (suitable nesting habitat; possible breeder)	NM
PE006	22/06/2022	15:16	Peregrine Falcon	1	cutover bog; perched/travelling, perched halfway up 100m mast (summering; non-breeding)	NM

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
PE001	26/02/2021	12:39	Peregrine Falcon	1	cutover bog, bog woodland and raised bog; hunting teal before drifting off empty taloned, immature?	PT
PE002	17/12/2021	11:29	Peregrine Falcon	1	bogs and bog woodland; travelling, female	JM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
PE001	CMVP5	09/12/2020	14:55	Peregrine Falcon	1	12	improved agricultural grassland; foraging	KB
PE002	CMVP4	26/01/2022	16:30	Peregrine Falcon	1	20	improved agricultural grassland, hedgerows and treelines, flying	TS

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
PE001	Vantage Point Survey	25/02/2021	17:50	Peregrine	1	improved agricultural grassland; travelling and perching, perching	DW
PE002	Vantage Point Survey	25/02/2021	17:59	Peregrine	1	improved agricultural grassland; travelling	DW
PE003	Vantage Point Survey,	25/02/2021	18:08	Peregrine	1	improved agricultural grassland; returning to perch	DW
PE004	Vantage Point Survey,	25/02/2021	18:18	Peregrine	1	improved agricultural grassland; dropping from perch, dropped down into overgrowth	DW
PE005	Waterbird Distribution Survey,	15/03/2021	09:33	Peregrine	1	treelines; perched high in tree within treeline boundary of Derrymore springs, flying away SE	NM
PE006	Waterbird Distribution Survey, Annalla fields	28/03/2022	12:00	Peregrine	1	improved agricultural grassland; hunting	DM
PE007	Vantage Point Survey, VP4	26/09/2022	16:09	Peregrine	1	cutover bog; travelling, adult seen flying low over bog	NM



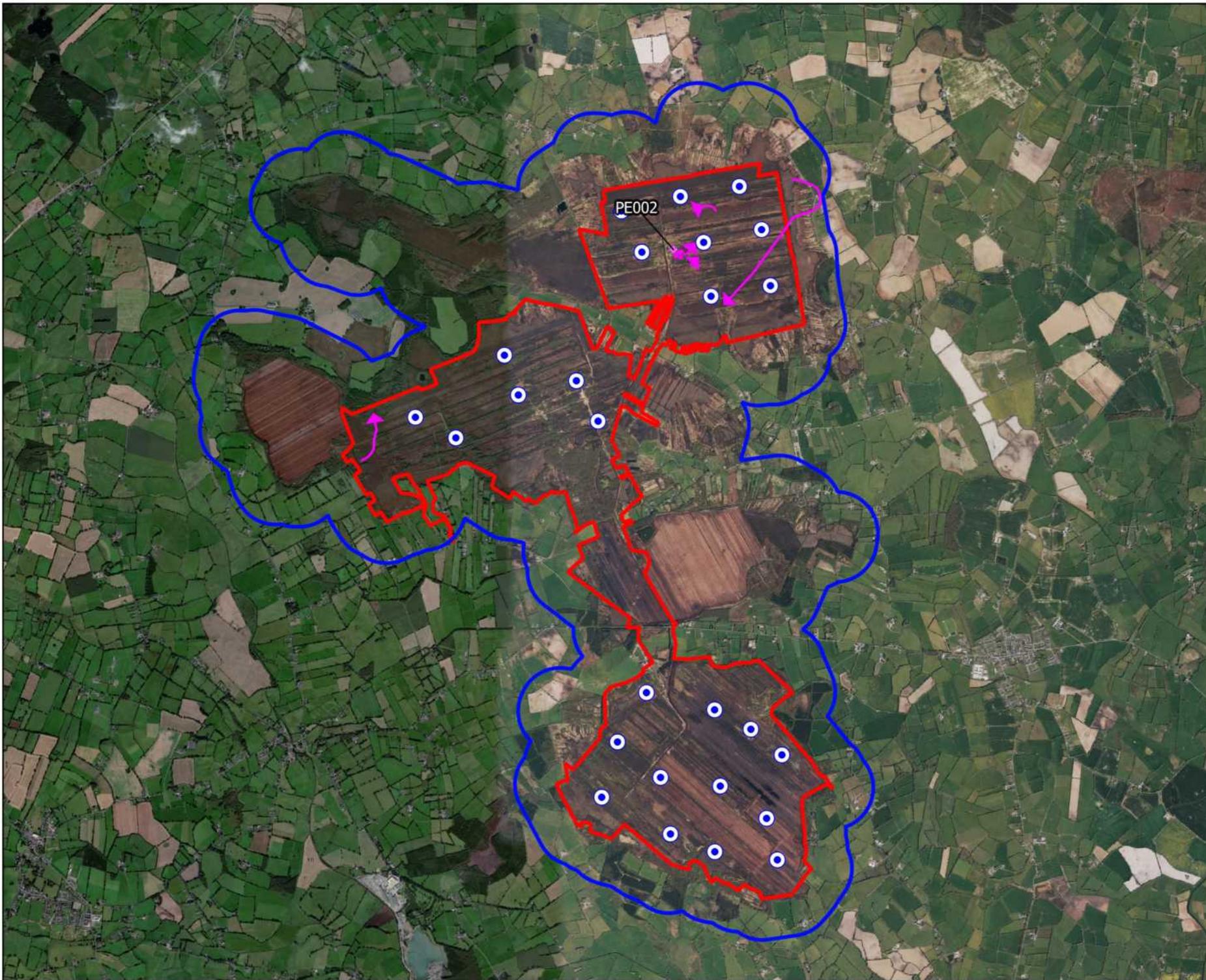
Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline
- ◆ Observation



Drawing Title Peregrine Observations Vantage Point Surveys	
Project Title Ballivor Wind Farm	
Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.1.7
Scale 1:60000	Date 14.02.23
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title

Peregrine Observations
Breeding Walkover Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.3.4

Scale

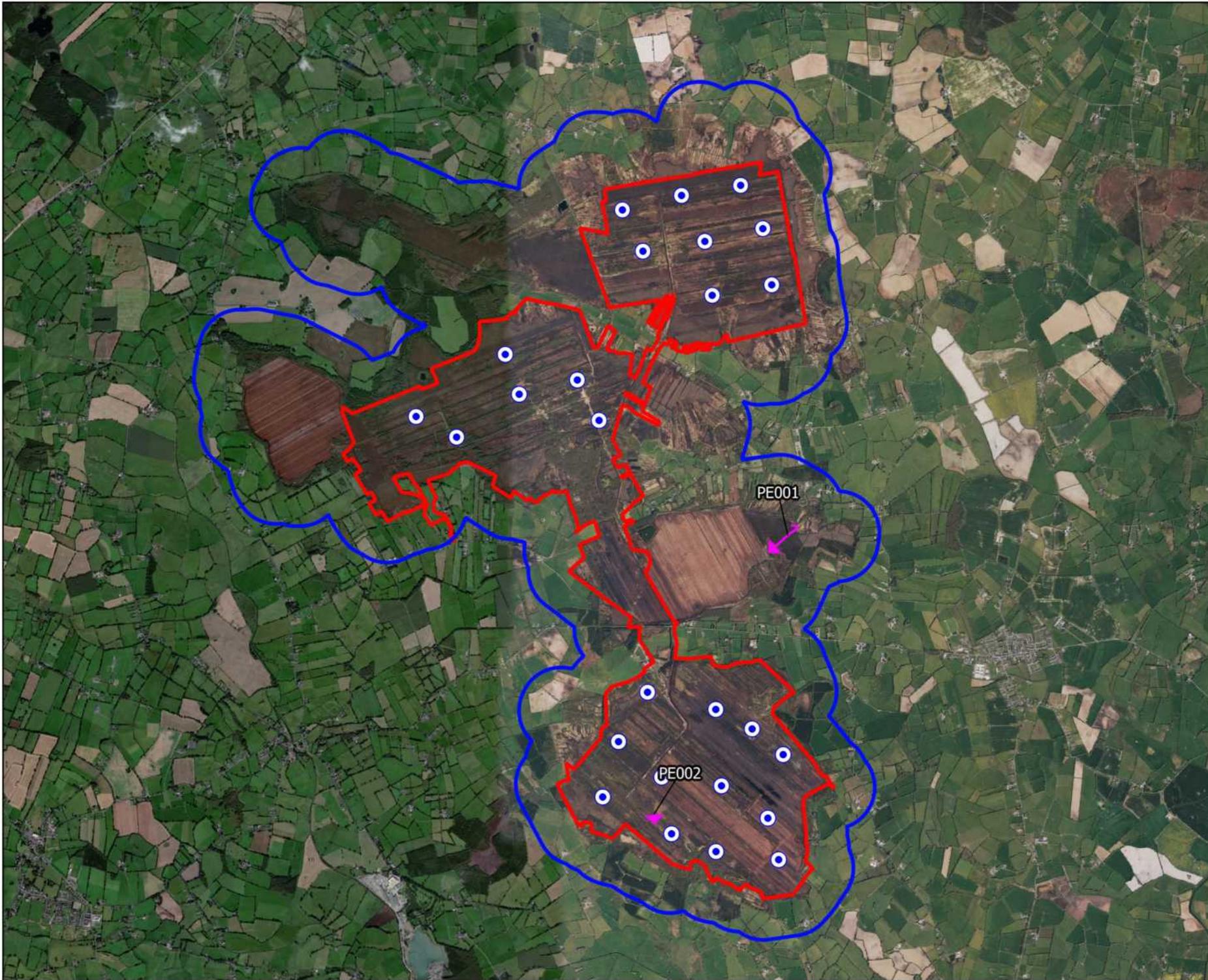
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Date

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline



Drawing Title

Peregrine Observations
Winter Walkover Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

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Drawing No.

Fig. 7.7.3

Scale

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Date

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- ▲ Connectivity Vantage Point Survey Location
- Flightline



Drawing Title

**Peregrine Observations
Connectivity VP Surveys**

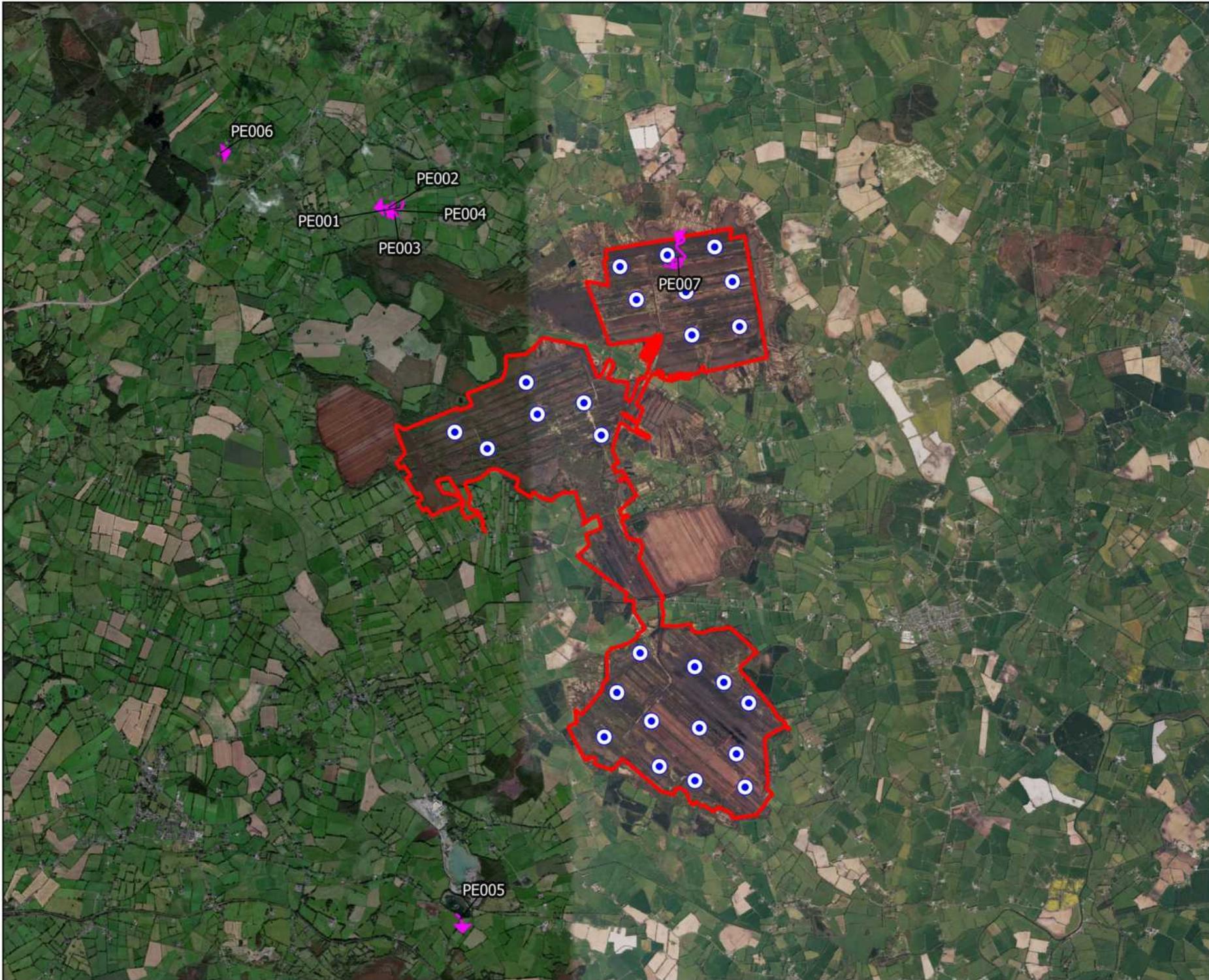
Project Title

Ballivor Wind Farm

Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
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Scale	Date
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Flightline



Drawing Title

Peregrine
Incidental Observations

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

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Drawing No.

Fig. 7.12.5

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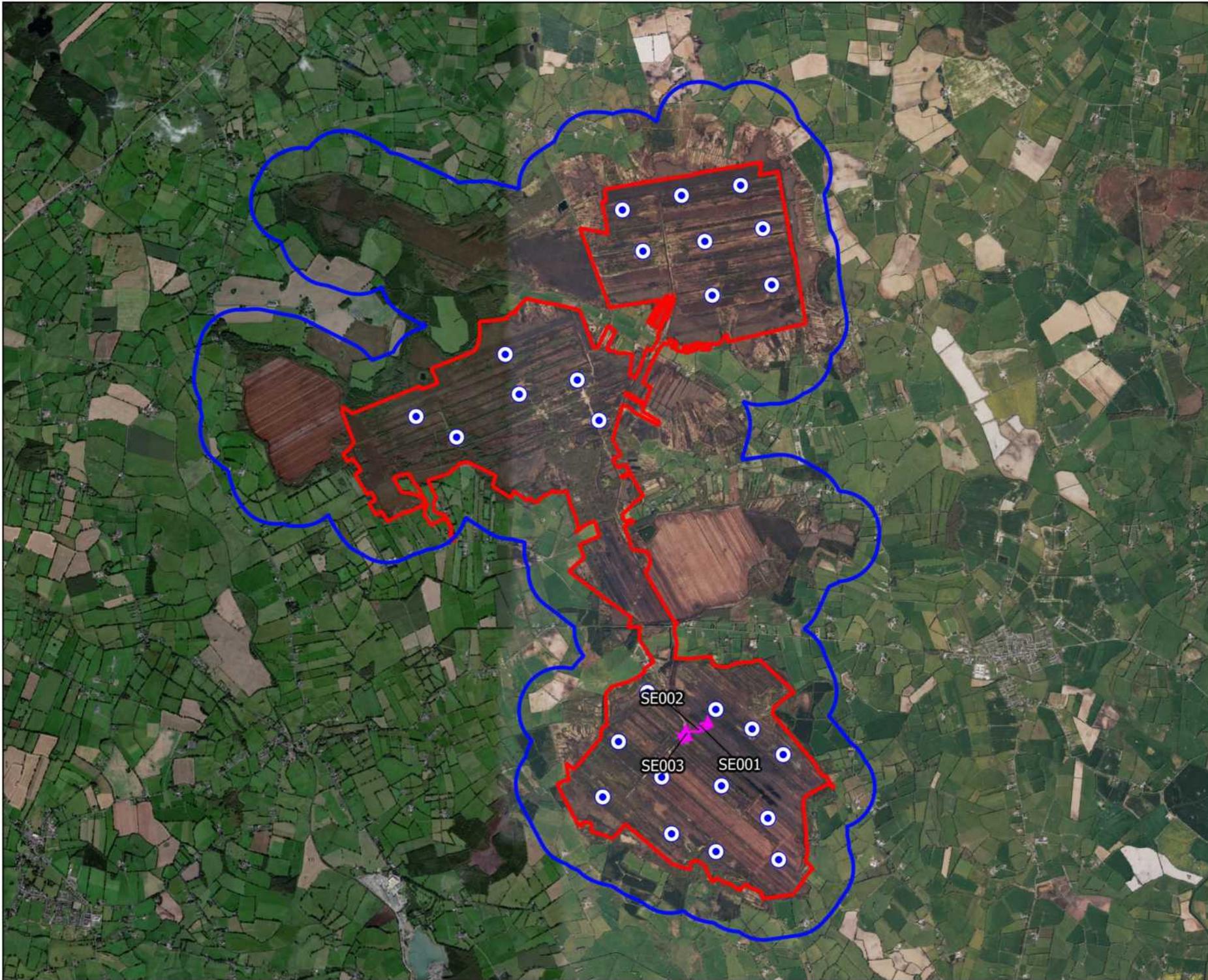


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Table 8 Short-eared Owl Survey Data

Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SE001	13/05/2021	14:19	Short-eared Owl	1	cutover bog: flushed from drain, disturbed from roost, flew to nearby peat embankment (suitable nesting habitat; possible breeder)	DW
SE002	13/05/2021	14:25	Short-eared Owl	1	cutover bog; travelling, flew from peat to heather ridge (suitable nesting habitat; possible breeder)	DW
SE003	13/05/2021	14:30	Short-eared Owl	1	bogs; travelling (suitable nesting habitat; possible breeder)	DW

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SE001	18/03/2022	15:23	Short-eared Owl	2	cutover bog: flushed flight, pair of owls flushed possible breeding	NM



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline



Drawing Title

Short-eared Owl Observations
Breeding Walkover Surveys

Project Title

Ballivor Wind Farm

Drawn By
P. Manley

Checked By
P. Cregg

Project No.
191137

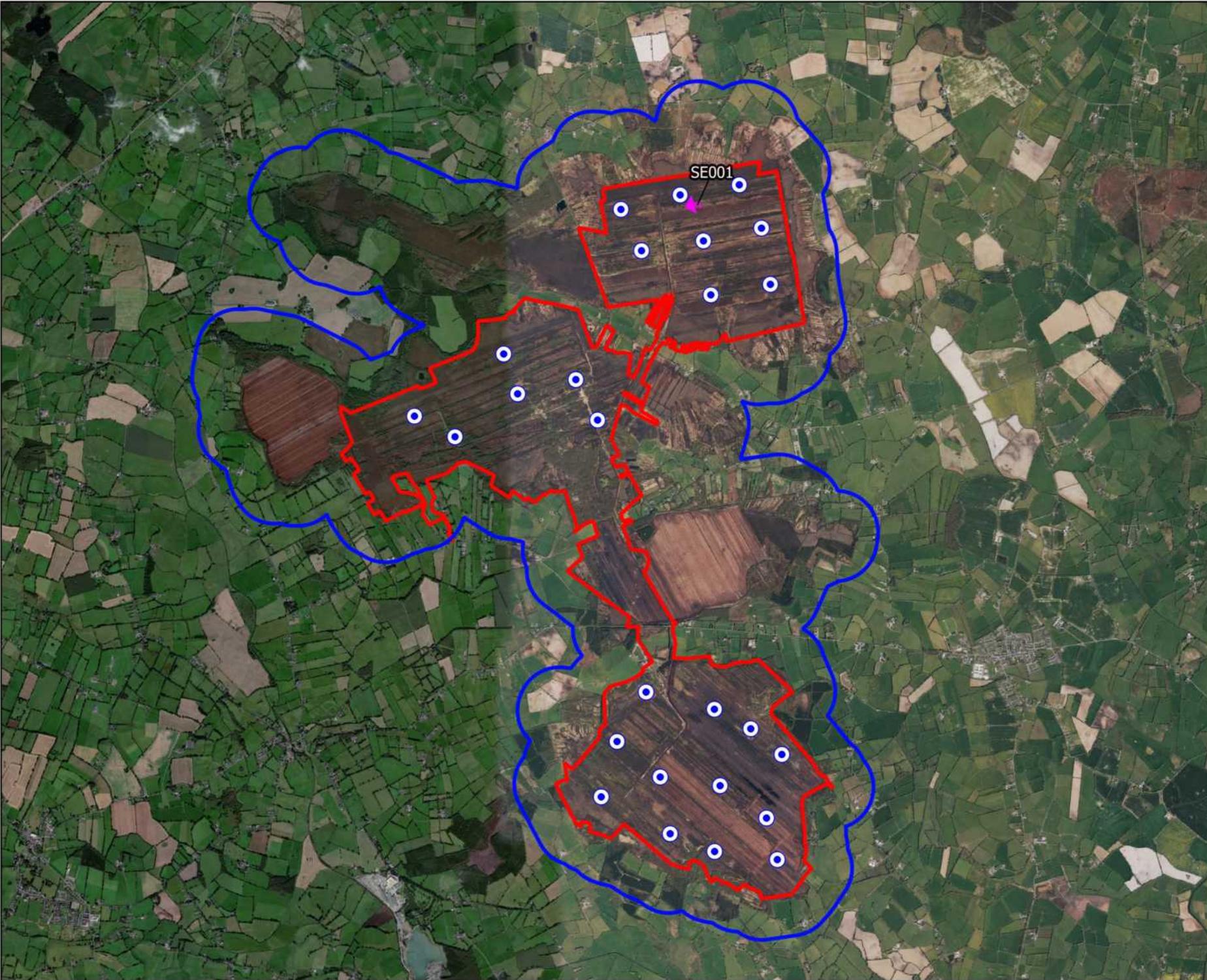
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Survey Area
-  Flightline



Drawing Title
**Short-eared Owl Observations
 Winter Walkover Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.7.4
Scale 1:60000	Date 14.02.23



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Table 9 Whooper Swan Survey Data

Vantage Point Survey												
Map 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	VP7	21/10/2020	16:36	Whooper Swan	4	30	0	0	30	0	cutover bog and immature woodland; travelling	KB
WS002	VP14	29/10/2020	12:35	Whooper Swan	2	107	0	107	0	0	cutover bog; flying	PW
WS003	VP14	29/10/2020	17:29	Whooper Swan	9	143	0	109	34	0	cutover bog; flying and calling, flying low 20-30m.	PW
WS005	VP4	03/11/2020	08:15	Whooper Swan	2	289	0	100	189	0	cutover bog; travelling, joins flock of 6 WS	DW
WS006	VP4	03/11/2020	08:16	Whooper Swan	6	82	0	30	52	0	cutover bog; travelling	DW
WS004	VP15	03/11/2020	10:58	Whooper Swan	2	333	0	0	333	0	cutover bog, bog woodland and conifer plantation; flying	PW
WS038	VP16	10/11/2020	07:31	Whooper Swan	12	60	0	0	60	0	cutover bog; travelling	KB
WS039	VP16	10/11/2020	07:36	Whooper Swan	16	60	0	0	60	0	cutover bog; travelling	KB
WS040	VP16	10/11/2020	07:40	Whooper Swan	10	30	0	0	30	0	cutover bog; travelling	KB
WS041	VP16	10/11/2020	07:43	Whooper Swan	25	40	0	0	40	0	cutover bog; travelling	KB
WS042	VP16	10/11/2020	07:52	Whooper Swan	19	30	0	0	30	0	cutover bog; travelling	KB
WS043	VP16	10/11/2020	07:53	Whooper Swan	6	15	0	0	15	0	cutover bog; travelling	KB
WS044	VP16	10/11/2020	07:57	Whooper Swan	29	35	0	0	35	0	cutover bog; travelling	KB
WS045	VP16	10/11/2020	08:11	Whooper Swan	18	30	0	0	30	0	cutover bog; travelling	KB
WS046	VP16	10/11/2020	08:27	Whooper Swan	6	20	0	0	20	0	cutover bog; travelling	KB
WS047	VP16	10/11/2020	08:33	Whooper Swan	38	60	0	0	60	0	cutover bog; travelling	KB
WS048	VP16	10/11/2020	08:42	Whooper Swan	8	15	0	0	15	0	cutover bog; travelling	KB
WS049	VP16	10/11/2020	08:58	Whooper Swan	9	15	0	0	15	0	cutover bog; travelling	KB
WS050	VP16	10/11/2020	08:59	Whooper Swan	2	10	0	0	10	0	cutover bog; travelling	KB
WS010	VP8	13/11/2020	08:15	Whooper Swan	6	120	0	0	120	0	cutover bog; travelling	DM
WS011	VP11	16/11/2020	07:54	Whooper Swan	15	75	0	0	75	0	cutover bog; travelling	DM
WS012	VP11	16/11/2020	07:58	Whooper Swan	13	75	0	0	75	0	cutover bog; travelling	DM

Vantage Point Survey												
Map 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
WS013	VP12	17/11/2020	07:39	Whooper Swan	16	120	0	0	120	0	cutover bog; travelling	DM
WS014	VP12	17/11/2020	07:49	Whooper Swan	15	120	0	0	120	0	cutover bog; travelling	DM
WS015	VP12	17/11/2020	07:51	Whooper Swan	6	150	0	0	150	0	cutover bog; travelling	DM
WS016	VP5	23/11/2020	08:05	Whooper Swan	4	240	0	0	240	0	cutover bog; travelling	DM
WS007	VP2	23/11/2020	11:41	Whooper Swan	11	353	0	53	300	0	improved agricultural grassland, cutover bog and conifer plantation, travelling	DW
WS017	VP14	25/11/2020	07:39	Whooper Swan	3	35	0	0	35	0	bogs, semi-natural woodland and linear woodland/scrub; flying, flying n	JC
WS018	VP14	25/11/2020	07:55	Whooper Swan	7	50	0	0	50	0	bogs, semi-natural woodland and linear woodland/scrub; flying, flying n	JC
WS019	VP14	25/11/2020	08:01	Whooper Swan	15	120	0	0	120	0	bogs, semi-natural woodland and linear woodland/scrub; flying	JC
WS020	VP14	25/11/2020	08:03	Whooper Swan	12	160	0	0	160	0	bogs, semi-natural woodland and linear woodland/scrub; flying from S flying in arch n. blocked from view for c. 30 sec by NW	JC
WS021	VP14	25/11/2020	08:21	Whooper Swan	19	160	0	0	160	0	bogs, semi-natural woodland and linear woodland/scrub; flying, sane path as above	JC
WS022	VP14	25/11/2020	08:24	Whooper Swan	7	110	0	0	110	0	bogs, semi-natural woodland and linear woodland/scrub; flying, following behind obs. 5. lost sight to W - glare	JC
WS023	VP14	25/11/2020	08:24	Whooper Swan	14	10	0	0	10	0	bogs, semi-natural woodland and linear woodland/scrub; flying, same southern start as others. did not see the rest of the flight	JC
WS024	VP14	25/11/2020	08:55	Whooper Swan	3	45	0	0	45	0	bogs, semi-natural woodland and linear woodland/scrub; flying, flying n	JC

Vantage Point Survey												
Map 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
WS025	VP14	25/11/2020	09:02	Whooper Swan	32	100	0	0	100	0	bogs, semi-natural woodland and linear woodland/scrub; flying, flying in arch northwards	JC
WS026	VP14	25/11/2020	11:19	Whooper Swan	5	180	0	0	180	0	bogs, semi-natural woodland and linear woodland/scrub; flying, from NE circling to w	JC
WS027	VP13	26/11/2020	08:16	Whooper Swan	26	30	0	0	30	0	bogs; flying	JC
WS028	VP13	26/11/2020	08:23	Whooper Swan	24	40	0	0	40	0	bogs; flying	JC
WS029	VP13	26/11/2020	08:25	Whooper Swan	7	65	0	0	65	0	bogs and semi-natural woodland; flying	JC
WS030	VP13	26/11/2020	08:29	Whooper Swan	32	65	0	0	65	0	bogs and semi-natural woodland; flying	JC
WS031	VP13	26/11/2020	08:38	Whooper Swan	7	65	0	0	65	0	bogs and semi-natural woodland; flying	JC
WS032	VP13	26/11/2020	08:47	Whooper Swan	4	65	0	0	65	0	bogs; flying	JC
WS033	VP13	26/11/2020	09:00	Whooper Swan	22	65	0	0	65	0	bogs; flying	JC
WS034	VP13	26/11/2020	09:20	Whooper Swan	6	40	0	0	40	0	bogs; flying	JC
WS035	VP13	26/11/2020	09:37	Whooper Swan	4	40	0	0	40	0	bogs; flying	JC
WS036	VP13	26/11/2020	09:41	Whooper Swan	4	30	0	0	30	0	bogs; flying	JC
WS037	VP13	26/11/2020	10:27	Whooper Swan	25	130	0	0	130	0	bogs and semi-natural woodland; flying	JC
WS008	VP1	27/11/2020	09:58	Whooper Swan	2	67	0	0	67	0	improved agricultural grassland, scrub and cutover bog, commuting	DW
WS009	VP1	27/11/2020	11:33	Whooper Swan	5	209	0	59	150	0	conifer plantation, improved agricultural grassland and cutover bog, commuting	DW
WS062	VP10	03/12/2020	11:12	Whooper Swan	2	150	0	0	150	0	cutover bog; travelling	DM
WS051	VP4	03/12/2020	17:01	Whooper Swan	6	93	0	93	0	0	cutover bog; travelling	DW
WS052	VP4	03/12/2020	17:02	Whooper Swan	30	53	0	53	0	0	cutover bog; travelling, estimate number, almost dark	DW

Vantage Point Survey												
Map 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
WS053	VP4	03/12/2020	17:03	Whooper Swan	8	46	0	46	0	0	cutover bog; travelling	DW
WS075	VP15	04/12/2020	16:50	Whooper Swan	9	40	0	0	40	0	cutover bog; travelling	KB
WS076	VP16	07/12/2020	10:30	Whooper Swan	4	28	0	28	0	0	cutover bog; travelling	KB
WS063	VP8	07/12/2020	13:31	Whooper Swan	1	175	0	0	175	0	cutover bog; travelling	DM
WS064	VP8	07/12/2020	14:40	Whooper Swan	75	180	0	0	180	0	cutover bog; travelling, disturbed from bog	DM
WS065	VP8	07/12/2020	14:42	Whooper Swan	11	180	0	0	180	0	cutover bog; travelling, disturbed from bog	DM
WS066	VP8	07/12/2020	14:44	Whooper Swan	8	180	0	0	180	0	cutover bog; travelling, disturbed from bog	DM
WS077	VP16	07/12/2020	14:55	Whooper Swan	10	60	0	0	60	0	cutover bog; travelling	KB
WS078	VP16	07/12/2020	16:20	Whooper Swan	4	30	0	0	30	0	cutover bog; travelling	KB
WS079	VP16	07/12/2020	16:50	Whooper Swan	2	30	0	30	0	0	cutover bog; travelling	KB
WS067	VP11	08/12/2020	16:26	Whooper Swan	156	250	0	0	250	0	cutover bog; travelling, going to roost	DM
WS068	VP11	08/12/2020	16:46	Whooper Swan	1	200	0	0	200	0	cutover bog; travelling, going to roost	DM
WS054	VP3	14/12/2020	17:02	Whooper Swan	85	124	24	100	0	0	cutover bog; travelling, landed in west of viewshed near road	DW
WS055	VP3	14/12/2020	17:03	Whooper Swan	7	127	0	127	0	0	cutover bog; travelling	DW
WS056	VP3	14/12/2020	17:04	Whooper Swan	4	75	15	60	0	0	cutover bog; travelling	DW
WS057	VP3	14/12/2020	17:05	Whooper Swan	9	97	7	60	30	0	cutover bog; travelling, landed in same area	DW
WS058	VP3	14/12/2020	17:06	Whooper Swan	3	55	5	20	30	0	cutover bog; travelling, landed in same area	DW
WS069	VP14	18/12/2020	17:05	Whooper Swan	9	60	0	0	60	0	cutover bog; travelling to roost	DM
WS070	VP14	18/12/2020	17:06	Whooper Swan	18	60	0	0	60	0	cutover bog; travelling to roost	DM
WS071	VP14	18/12/2020	17:07	Whooper Swan	23	60	0	0	60	0	cutover bog; travelling to roost	DM
WS072	VP14	18/12/2020	17:09	Whooper Swan	14	60	0	0	60	0	cutover bog; travelling to roost	DM
WS073	VP14	18/12/2020	17:10	Whooper Swan	4	45	0	0	45	0	cutover bog; travelling to roost	dm

Vantage Point Survey												
Map 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
WS074	VP14	18/12/2020	17:15	Whooper Swan	5	45	0	0	45	0	cutover bog; travelling to roost	DM
WS059	VP6	21/12/2020	16:07	Whooper Swan	1	169	0	0	169	0	improved agricultural grassland and cutover bog, travelling	DW
WS060	VP6	21/12/2020	17:00	Whooper Swan	34	98	0	98	0	0	cutover bog; travelling, seeming to head to roost at lake	DW
WS061	VP1	23/12/2020	17:05	Whooper Swan	10	90	20	50	20	0	cutover bog; travelling, outside of viewshed	DW
WS080	VP14	06/01/2021	09:09	Whooper Swan	4	115	0	0	115	0	cutover bog; travelling	DM
WS081	VP10	14/01/2021	09:15	Whooper Swan	4	90	0	0	90	0	cutover bog; travelling	DM
WS082	VP9	22/01/2021	11:36	Whooper Swan	5	120	0	0	120	0	cutover bog; travelling	DM
WS083	VP3	23/03/2021	08:12	Whooper Swan	12	230	0	0	230	0	cutover bog, scrub and improved agricultural grassland; travelling, didn't see where flock originated from	DW
WS099	VP5	12/10/2021	08:42	Whooper Swan	3	300	0	0	0	300	bogs; travelling/calling	JM
WS100	VP12	12/10/2021	09:42	Whooper Swan	7	210	0	140	70	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
WS101	VP13	13/10/2021	12:07	Whooper Swan	5	234	70	164	0	0	mixed broadleaved/conifer woodland and improved agricultural grassland, travelling	KS
WS102	VP14	14/10/2021	08:49	Whooper Swan	6	67	0	67	0	0	cutover bog, dry siliceous heath and treelines; travelling	KS
WS103	VP15	15/10/2021	09:07	Whooper Swan	10	77	0	77	0	0	cutover bog; travelling	KS
WS104	VP8	21/10/2021	08:27	Whooper Swan	3	136	0	0	136	0	bogs; travelling	JM
WS105	VP7	22/10/2021	08:53	Whooper Swan	2	128	0	28	100	0	bogs and bog woodland; travelling	JM
WS106	VP7	22/10/2021	09:29	Whooper Swan	11	53	0	0	53	0	bogs; travelling	JM
WS107	VP7	22/10/2021	11:23	Whooper Swan	4	230	0	0	230	0	bogs; travelling	JM
WS108	VP11	29/10/2021	09:24	Whooper Swan	6	118	0	0	118	0	bogs and bog woodland; travelling	JM
WS109	VP2	02/11/2021	11:44	Whooper Swan	5	45	0	0	0	0	bogs; travelling	JM

Vantage Point Survey												
Map 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
WS110	VP5	03/11/2021	13:21	Whooper Swan	10	259	0	0	0	0	bogs; travelling	JM
WS111	VP9	08/11/2021	16:47	Whooper Swan	5	20	0	20	20	0	cutover bog; travelling	KB
WS112	VP3	08/11/2021	16:39	Whooper Swan	8	201	0	0	0	0	bogs and bog woodland; travelling	JM
WS113	VP10	28/11/2021	11:34	Whooper Swan	7	100	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland;	TS
WS114	VP2	01/12/2021	10:58	Whooper Swan	8	183	0	0	0	0	conifer plantation, mixed broadleaved woodland and bogs; travelling	JM
WS115	VP16	23/12/2021	08:13	Whooper Swan	4	50	40	10	50	0	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland, commuting	KS
WS116	VP10	14/10/2022	09:24	Whooper Swan	7	60	0	0	0	0	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland, travelling	KS

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
WS084	VP14	25/11/2020	07:25	Whooper Swan		bogs, semi-natural woodland and linear woodland/scrub; calling to SW. exact location unknown.	JC
WS085	VP14	25/11/2020	07:34	Whooper Swan		bogs, semi-natural woodland and linear woodland/scrub; calling to e. exact location unknown	JC
WS086	VP14	26/11/2020	08:35	Whooper Swan		bogs, semi-natural woodland and linear woodland/scrub; calling, sound of WS flying to E o VP. exact location unknown	JC
WS087	VP13	26/11/2020	07:30	Whooper Swan		bogs; calling, exact location unknown	JC
WS088	VP13	26/11/2020	11:11	Whooper Swan		bogs; calling, sound to north	JC

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
WS089	VP6	21/12/2020	12:24	Whooper Swan	1	improved agricultural grassland; calling, flock of WS heard SE of VP but visibility too poor to locate	DW
WS090	VP6	21/12/2020	12:38	Whooper Swan	1	improved agricultural grassland; calling, flock heard but not seen	DW
WS091	VP6	21/12/2020	17:02	Whooper Swan	1	cutover bog; travelling, lots of WS heard travelling E to w, north of VP location. heading to roost at SM lake most probably	DW
WS092	VP6	21/12/2020	17:20	Whooper Swan	1	watercourses; on water, check lake after VP. too dark to see but lots of WS heard on lake.	DW
WS093	VP7	05/12/2020		Whooper Swan		cutover bog; flock heard calling only	DM
WS094	VP14	06/01/2021	14:05	Whooper Swan	1	cutover bog; calling, heard only	DM
WS095	VP16	24/03/2021	06:32	Whooper Swan			KB
WS096	VP16	24/03/2021	06:43	Whooper Swan			KB
WS097	VP16	24/03/2021	07:41	Whooper Swan			KB
WS098	VP16	30/10/2020		Whooper Swan	4	cutover bog; calls of 4+ birds heard, not observed	JK

Winter Walkover Surveys							
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor	
WS001	22/10/2020	10:16	Whooper Swan	2	bogs; flying	JC	
WS002	23/10/2020	15:00	Whooper Swan	2	improved agricultural grassland; sound of bird	JC	

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
WS009	N of Ballivor	24/11/2020		Whooper Swan	89	arable crops; on stubble fields	DM

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
WS010	Annalla fields	24/11/2020		Whooper Swan	14	improved agricultural grassland; in wet grassland	DM
WS011	N of Ballivor	11/12/2020		Whooper Swan	270	arable crops; feeding/roosting, in stubble field	DM
WS012	Annalla fields	11/12/2020		Whooper Swan	20	improved agricultural grassland, feeding/roosting, wet grassland	DM
WS013	Annalla Lakes	11/12/2020		Whooper Swan	1	lakes and ponds; feeding/roosting	DM
WS014	Annalla fields	30/12/2020		Whooper Swan	64	improved agricultural grassland; feeding/roosting, wet grassland	DM
WS015	Annalla Fields	12/01/2021	13:30	Whooper Swan	65	improved agricultural grassland; feeding, wet grassland	DM
WS016	E of Killucan	28/01/2021	09:15	Whooper Swan	53	improved agricultural grassland; feeding, wet grassland	DM
WS017	Annalla Fields	28/01/2021	11:30	Whooper Swan	55	improved agricultural grassland; feeding, wet grassland	DM
WS018	Annalla fields	08/02/2021	14:30	Whooper Swan	52	improved agricultural grassland; feeding	DM
WS019	E of Delvin	19/02/2021	10:30	Whooper Swan	7	improved agricultural grassland; feeding	DM
WS020	Annalla Fields	19/02/2021	13:30	Whooper Swan	56	improved agricultural grassland; feeding	DM
WS021		15/03/2021	09:12	Whooper Swan	7	other artificial lakes and ponds; swimming on attenuation pond	NM
WS022	On farmland	30/03/2021	09:31	Whooper Swan	26	improved agricultural grassland; grazing on agri. grassland	NM
WS023	On farmland	30/03/2021	09:32	Whooper Swan	48	improved agricultural grassland; grazing on agri. grassland, damp patch with some small puddles	NM
WS024	On farmland	30/03/2021	09:33	Whooper Swan	5	improved agricultural grassland; grazing on agri. grassland, combined group of MS & WS	NM
WS025	Annalla Lakes	07/04/2021	11:40	Whooper Swan	11	lakes and ponds; foraging	KB
WS026	Shay Murtagh's Lakes 2	20/09/2021	12:23	Whooper Swan	2	lakes and ponds; roosting	TR
WS027	Shay Murtagh's Lakes 2	30/09/2021	11:39	Whooper Swan	5	lakes and ponds; roosting	TR
WS028	River Deel	29/10/2021	10:45	Whooper Swan	6	improved agricultural grassland; travelling	DM

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
WS029	N of Ballivor	29/10/2021	11:15	Whooper Swan	200	arable crops; feeding, approx. count-behind hedge	DM
WS030	N of Ballivor	29/10/2021	12:00	Whooper Swan	70	arable crops; feeding	DM
WS031	Annalla fields	26/11/2021	12:00	Whooper Swan	34	improved agricultural grassland; feeding	DM
WS032	Annalla fields	28/12/2021	12:30	Whooper Swan	46	improved agricultural grassland; feeding	DM
WS033	Annalla fields	13/01/2022	12:30	Whooper Swan	49	improved agricultural grassland; feeding	DM
WS034	N of Killucan	13/01/2022	15:30	Whooper Swan	65		DM
WS035	N51 E of Delvin	24/01/2022	12:00	Whooper Swan	12	improved agricultural grassland; feeding, flooded field	DM
WS036	Annalla fields	24/01/2022	13:30	Whooper Swan	59	improved agricultural grassland; feeding	DM
WS037	N of Killucan	24/01/2022	15:30	Whooper Swan	71	improved agricultural grassland; feeding	DM
WS038	Annalla Fields	08/02/2022	10:14	Whooper Swan	2	improved agricultural grassland; feeding	KS
WS039	Annalla Fields	08/02/2022	10:15	Whooper Swan	51	improved agricultural grassland; feeding	KS
WS040	Caddagh cross	22/02/2022	09:52	Whooper Swan	48	improved agricultural grassland; feeding	KS
WS041	Annalla fields	22/02/2022	10:08	Whooper Swan	24	improved agricultural grassland; feeding	KS
WS042	River Deel	14/03/2022	09:00	Whooper Swan	1	depositing/lowland rivers; feeding on river	DM
WS043	N51 E of Delvin	14/03/2022	10:30	Whooper Swan	3	improved agricultural grassland; feeding	DM
WS044	Annalla fields	14/03/2022	11:30	Whooper Swan	64	improved agricultural grassland; feeding	DM
WS045	Annalla fields	28/03/2022	12:00	Whooper Swan	10	improved agricultural grassland; feeding	DM
WS046	Annalla Lakes	28/03/2022	13:30	Whooper Swan	10	lakes and ponds; feeding	DM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
WS001	CMVP5	24/11/2020	09:54	Whooper Swan	3	40	improved agricultural grassland and hedgerows, travelling	KB

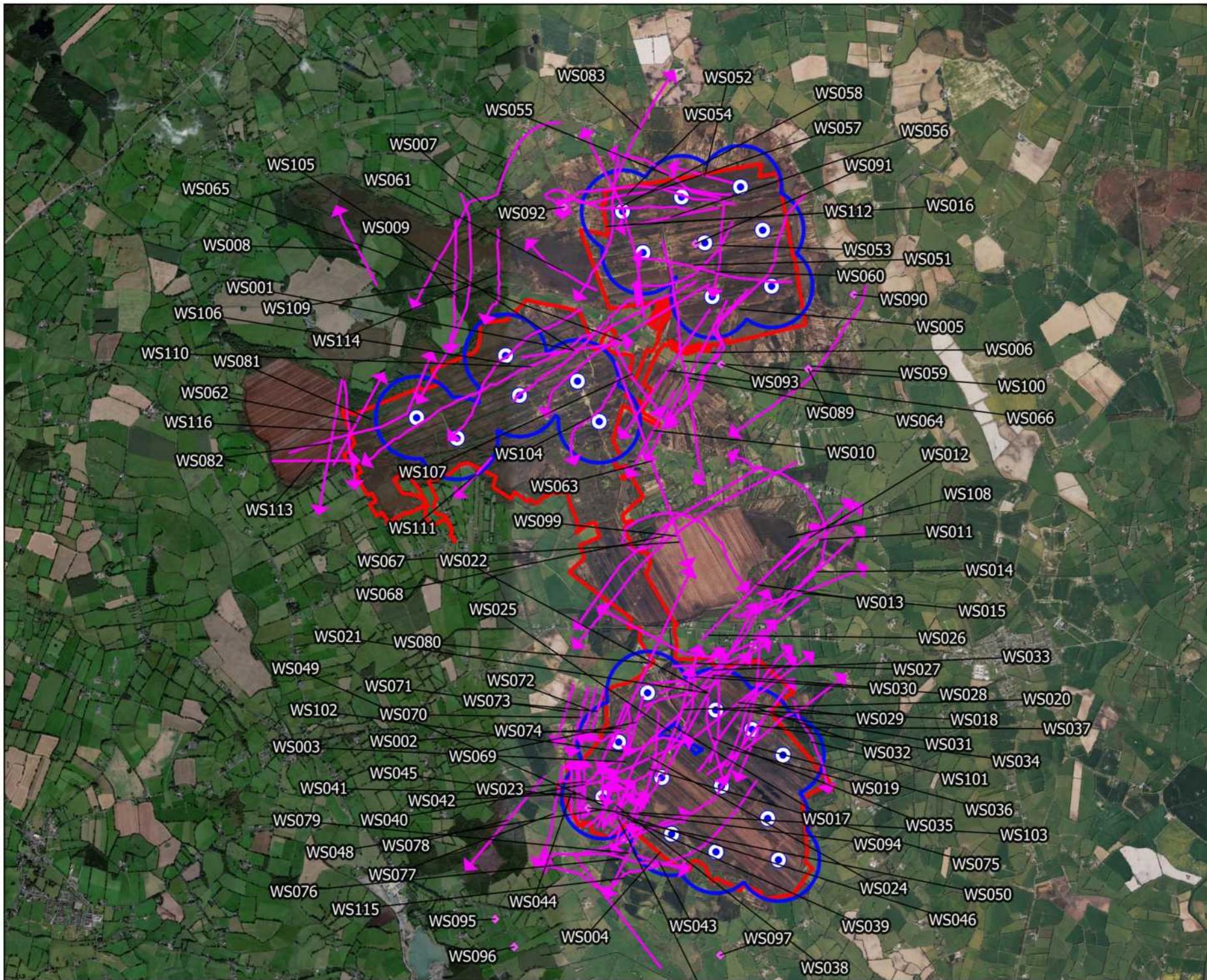
Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
WS002	CMVP4	27/11/2020	09:34	Whooper Swan	3	20	improved agricultural grassland, travelling	KB
WS003	CMVP4	11/02/2021	18:15	Whooper Swan	1		improved agricultural grassland; calling, heard only	DM
WS004	CMVP4	11/02/2021	18:35	Whooper Swan	80		improved agricultural grassland and lakes and ponds; roosting, approx. count	DM
WS005	CMVP4	23/02/2021	17:38	Whooper Swan	14	35	improved agricultural grassland and lakes and ponds; travelling, coming into roost	DM
WS006	CMVP4	23/02/2021	17:39	Whooper Swan	17	35	improved agricultural grassland and lakes and ponds; travelling, coming into roost	DM
WS007	CMVP4	23/02/2021	17:40	Whooper Swan	5	35	improved agricultural grassland and lakes and ponds; travelling, coming into roost	DM
WS008	CMVP4	23/02/2021	17:50	Whooper Swan	23	35	improved agricultural grassland and lakes and ponds; travelling, coming into roost	DM
WS009	CMVP4	23/02/2021	17:53	Whooper Swan	5	35	improved agricultural grassland and lakes and ponds; travelling, coming into roost	DM
WS010	CMVP4	23/02/2021	17:54	Whooper Swan	9	35	improved agricultural grassland and lakes and ponds; travelling, coming in to roost	DM
WS011	CMVP4	23/02/2021	17:56	Whooper Swan	5	35	improved agricultural grassland and lakes and ponds; travelling, coming in to roost	DM
WS012	CMVP4	23/02/2021	17:57	Whooper Swan	3	35	improved agricultural grassland and lakes and ponds; travelling, coming in to roost	DM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
WS013	CMVP4	27/02/2021	07:00	Whooper Swan	75		improved agricultural grassland; feeding, wet field	DM
WS014	CMVP3	10/03/2021	09:30	Whooper Swan	15		improved agricultural grassland; feeding, near Killucan	DM
WS015	CMVP4	11/03/2021	06:00	Whooper Swan	73		lakes and ponds and improved agricultural grassland; roosting, flooded field	DM
WS016	CMVP4	11/03/2021	07:08	Whooper Swan	2	65	lakes and ponds and improved agricultural grassland; travelling, left flood to feed	DM
WS017	CMVP4	11/03/2021	07:14	Whooper Swan	32	60	lakes and ponds and heath and dense bracken; travelling, left flood to feed	DM
WS018	CMVP4	11/03/2021	07:15	Whooper Swan	12	65	lakes and ponds and improved agricultural grassland; travelling, left flood to feed	DM
WS019	CMVP4	11/03/2021	07:16	Whooper Swan	10	65	lakes and ponds and improved agricultural grassland; travelling, left flood to feed	DM
WS020	CMVP4	11/03/2021	07:20	Whooper Swan	17	65	lakes and ponds and improved agricultural grassland; travelling, left flood to feed	DM
WS021	CMVP2	21/10/2021	18:32	Whooper Swan	2	30	improved agricultural grassland and buildings and artificial surfaces; flying, ad + juv.	TS
WS022	CMVP3	22/10/2021	08:49	Whooper Swan	10	180	improved agricultural grassland and buildings and artificial surfaces; flying	TS
WS023	CMVP4	22/10/2021	17:15	Whooper Swan	8	110	improved agricultural grassland, amenity grassland (improved) and buildings and artificial surfaces; flying, flying high	TS

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
WS024	CMVP4	22/10/2021	18:26	Whooper Swan	5	100	improved agricultural grassland, amenity grassland (improved) and buildings and artificial surfaces; flying, locals say that swans roost in the flooded fields near Rathamy GAA club	TS
WS025	CMVP5	23/10/2021	08:09	Whooper Swan	2	20	improved agricultural grassland and canals; flying	TS
WS026	CMVP2	26/03/2022	18:23	Whooper Swan	12	80	improved agricultural grassland, limestone/marl lakes and conifer plantation; flying	TS

Incidental Observations								
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor	
WS001	Connectivity Vantage Point Survey flooded field about 1km from CMVP 4.	17/12/2020		Whooper Swan	36	flock of WS found after VP survey.	KB	
WS002	Vantage Point Survey, VP15	09/01/2021	11:53	Whooper Swan	1		KB	
WS003	Hen Harrier Roost Survey, HHVP1	15/10/2021	18:02	Whooper Swan	29	cutover bog; travelling	DM	
WS004	Hen Harrier Roost Survey, HHVP1	15/10/2021	19:05	Whooper Swan	1	cutover bog; calling, heard only	DM	
WS005	Hen Harrier Roost Survey, HHVP2	18/10/2021	17:45	Whooper Swan	4	cutover bog; travelling	DM	
WS006	Hen Harrier Roost Survey, HHVP2	18/10/2021	18:07	Whooper Swan	4	cutover bog; travelling	DM	
WS007	Vantage Point Survey, rear of VP11 viewshed	29/10/2021	08:19	Whooper Swan	1	bogs; calling, not seen	JM	
WS008	Connectivity Vantage Point Survey, royal canal near CMVP5	04/11/2021	13:10	Whooper Swan	19	improved agricultural grassland, canals and buildings and artificial surfaces; v formation flight, not mapped	TS	
WS009	Hen Harrier Roost Survey, HHVP1	05/11/2021	15:35	Whooper Swan	4	bogs; travelling	JM	
WS010	Hen Harrier Roost Survey, HHVP2	12/11/2021	15:10	Whooper Swan	4	bogs; travelling	JM	

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
WS011	Hen Harrier Roost Survey, HHVP3	19/11/2021	08:21	Whooper Swan	6	bogs; travelling	JM
WS012	Vantage Point Survey, bog N from VP12	20/11/2021	14:04	Whooper Swan	2	cutover bog and treelines; flying SW across the bog, not mapped	TS
WS013	Connectivity Vantage Point Survey, 1.5 km SE from CMVP3 53.52545, -7.12273	13/01/2022	10:30	Whooper Swan	52	improved agricultural grassland; roosting, seen from the road 53.52247, -7.12910	TS
WS014	Wintering Golden Plover Survey, Batterstown	19/01/2022	11:29	Whooper Swan	3	improved agricultural grassland; lounging in field/resting	JM
WS015	Connectivity Vantage Point Survey, 2.5km NE from CMVP2 53.59752, -7.11866	25/01/2022	14:20	Whooper Swan	35	improved agricultural grassland; roosting	TS
WS016	Hen Harrier Roost Survey, HHVP1	31/01/2022	17:38	Whooper Swan	7	cutover bog; in flight, flying from north to south calling	IH
WS017	Connectivity Vantage Point Survey, 1.5 km SE from CMVP4 53.52545, -7.12273	03/02/2022	14:30	Whooper Swan	84	improved agricultural grassland; roosting, seen from the road 53.52247, -7.12910	TS

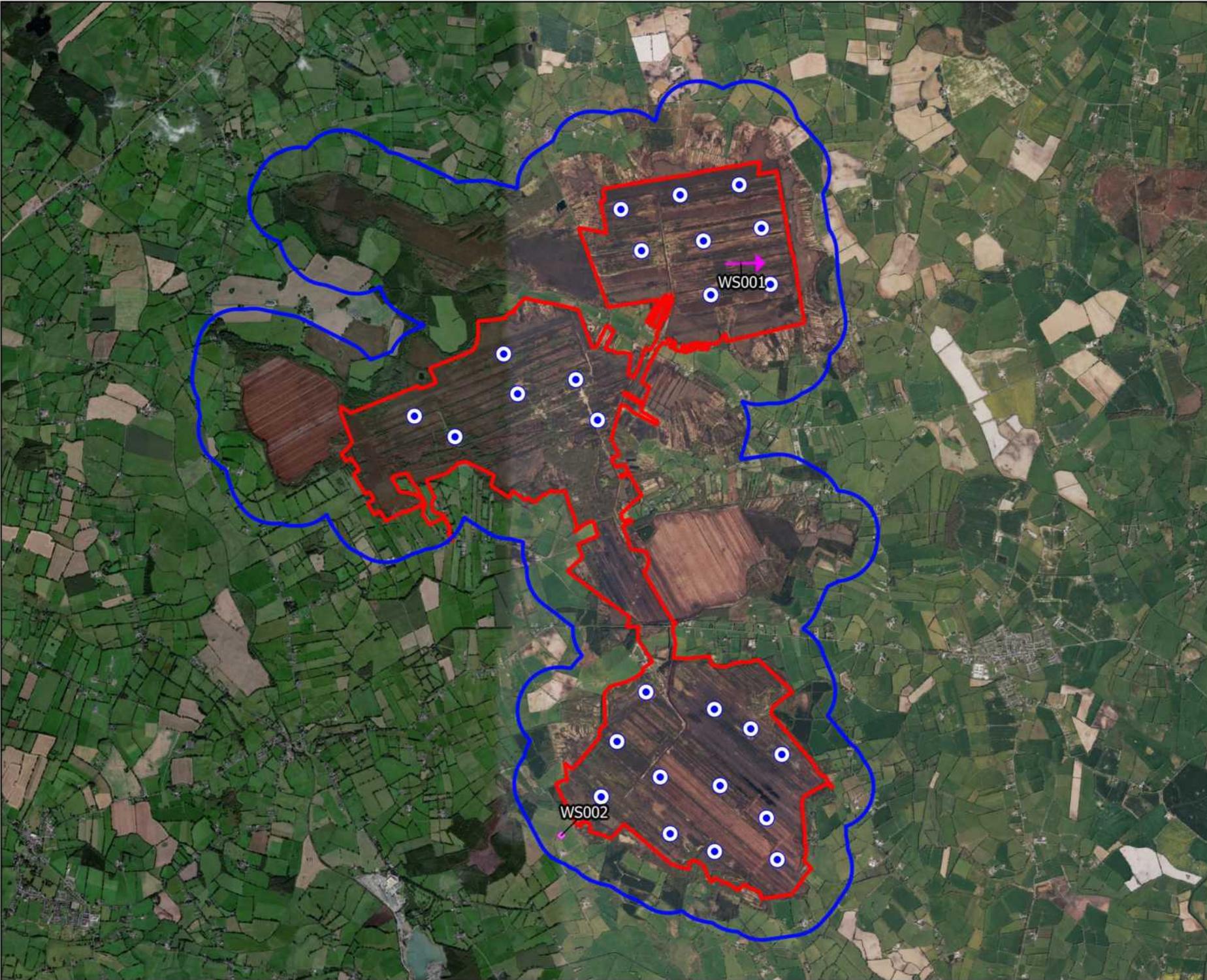


- ### Map Legend
- Wind Farm Site
 - Proposed Turbine Layout
 - 500m Turbine Buffer
 - Flightline
 - ◆ Observation



Whooper Swan Observations Vantage Point Surveys	
Ballivor Wind Farm	
Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.1.8
Scale 1:60000	Date 14.02.23
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



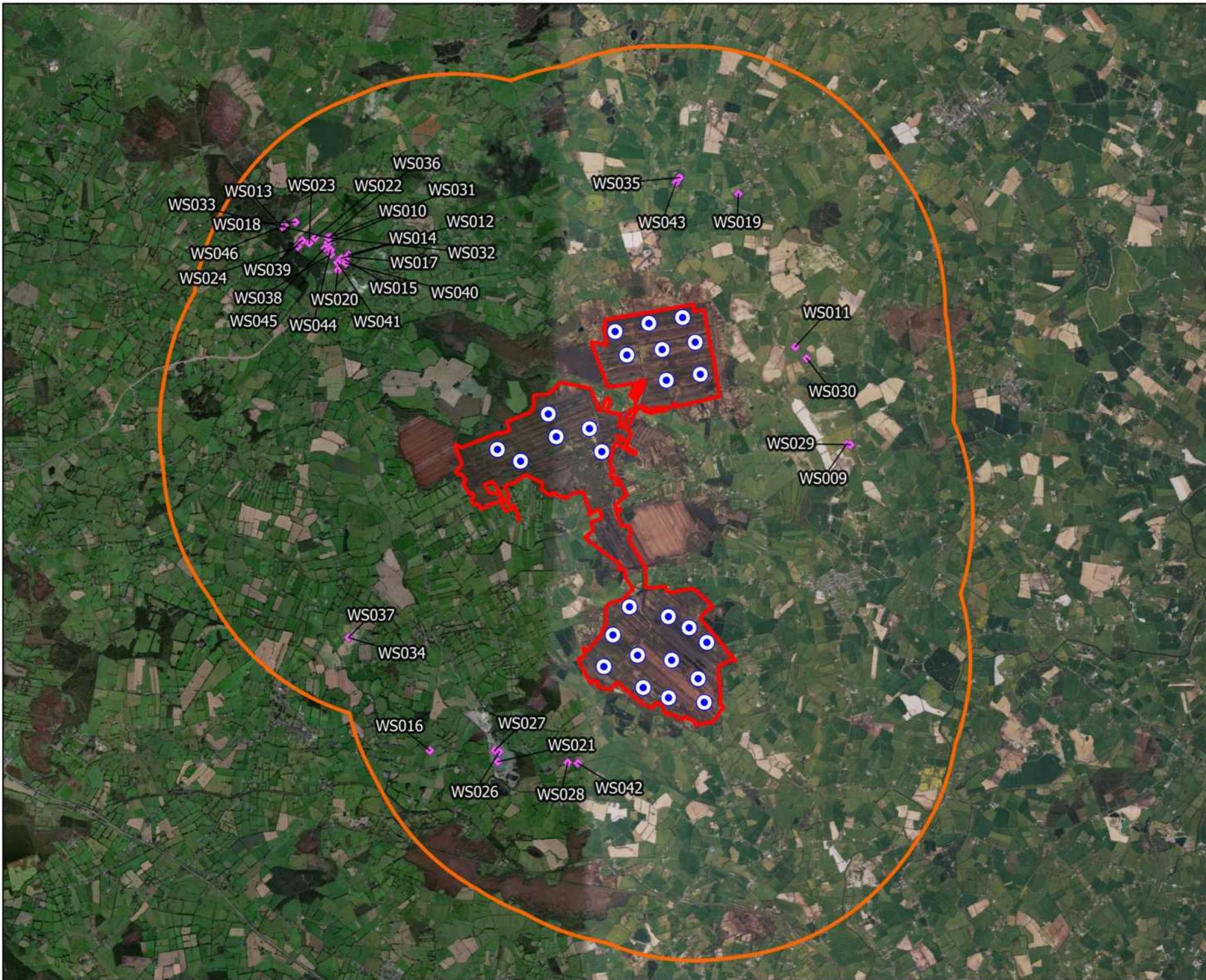
Whooper Swan Observations
Winter Walkover Surveys

Ballivor Wind Farm

Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.7.5
Scale	Date
1:60000	14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- ◆ Observation



Drawing Title

Whooper Swan Observations
Waterbird Distribution Surveys

Project Title

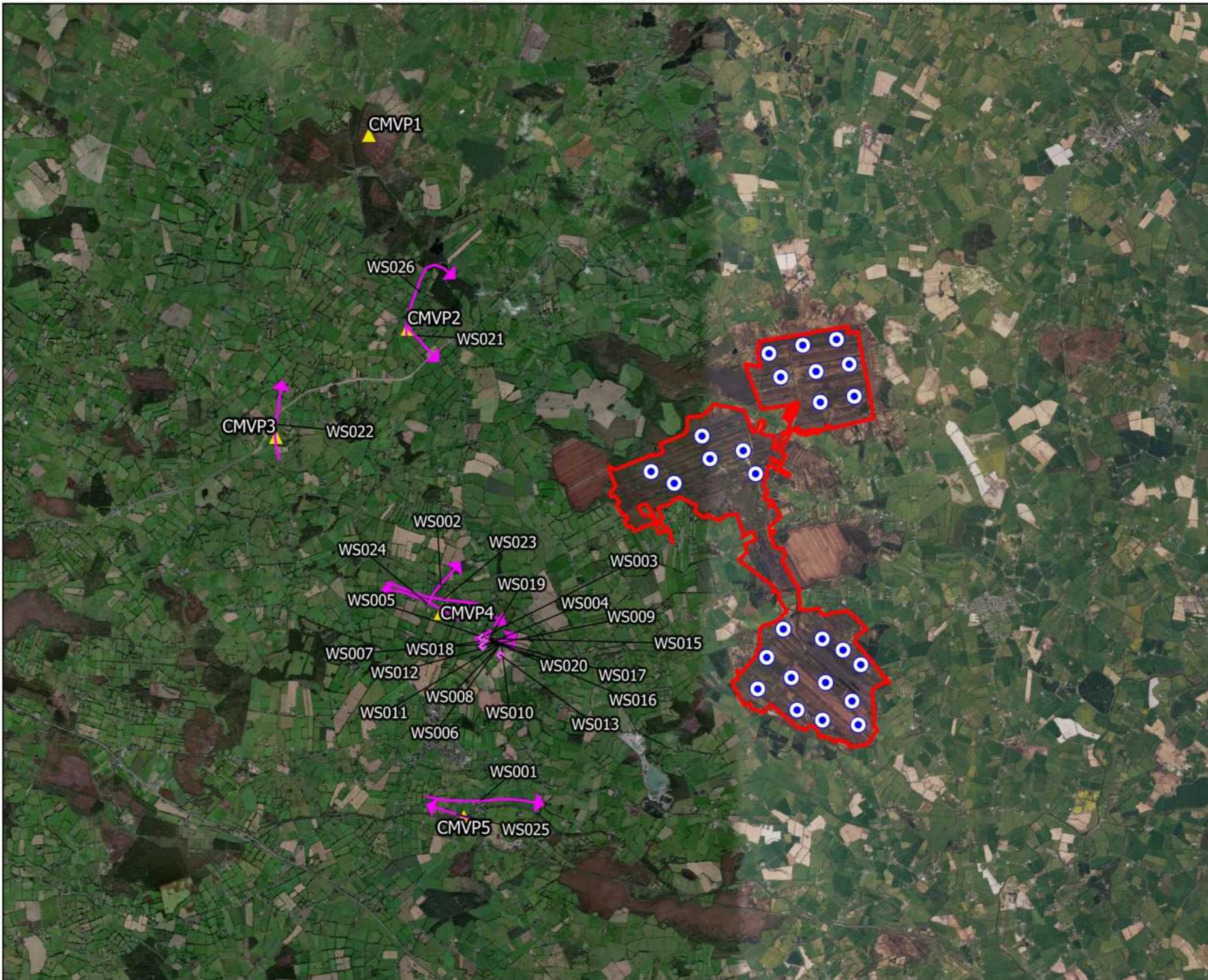
Ballivor Wind Farm

Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.8.4
Scale	Date
1:105000	14.02.23



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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- ▲ Connectivity Vantage Point Survey Location
- Flightline



Drawing Title

Whooper Swan Observations
Connectivity VP Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.9.5

Scale

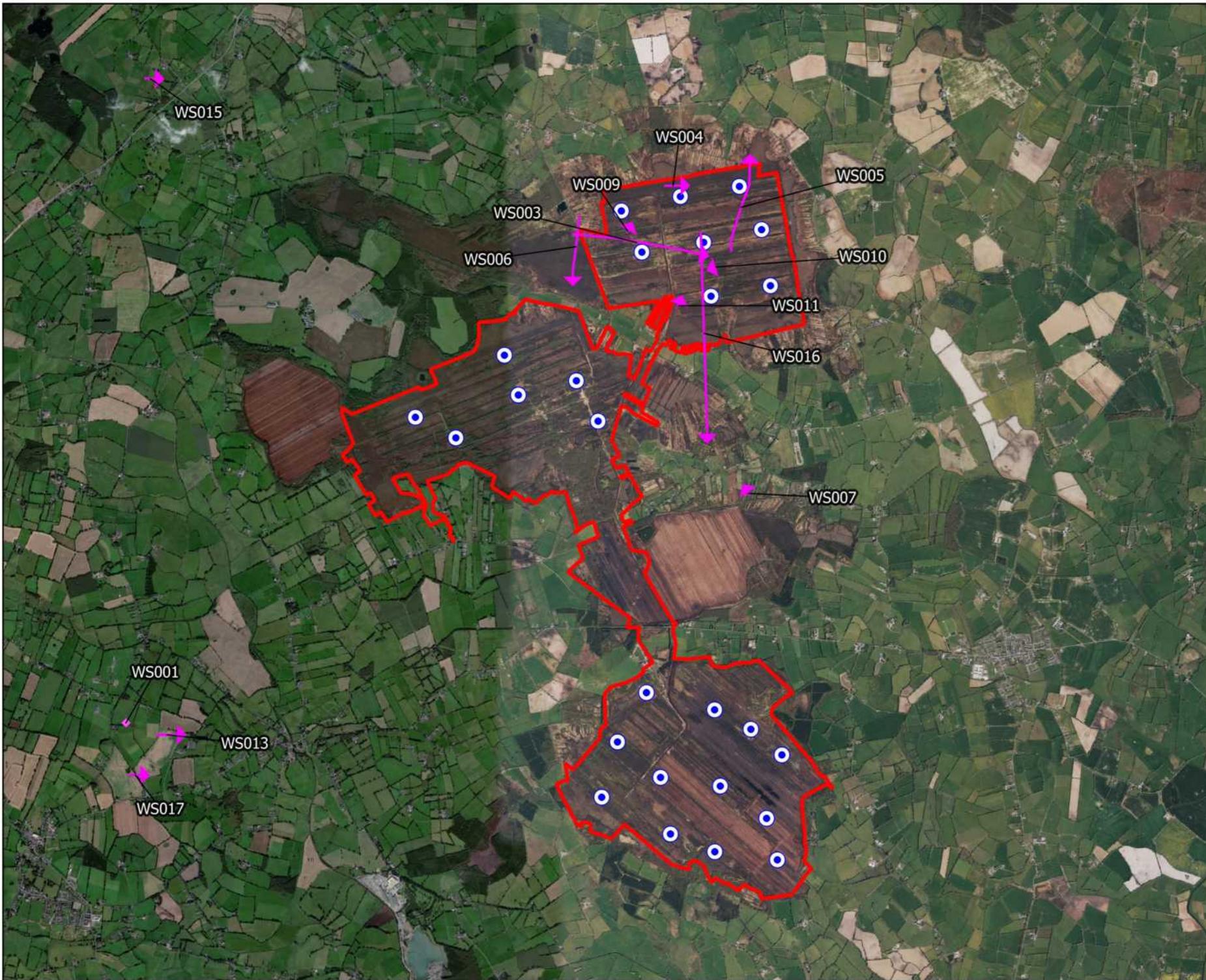
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Date

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline



Drawing Title	
Whooper Swan Incidental Observations	
Project Title	
Ballivor Wind Farm	
Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.12.6
Scale	Date
1:60000	14.02.23
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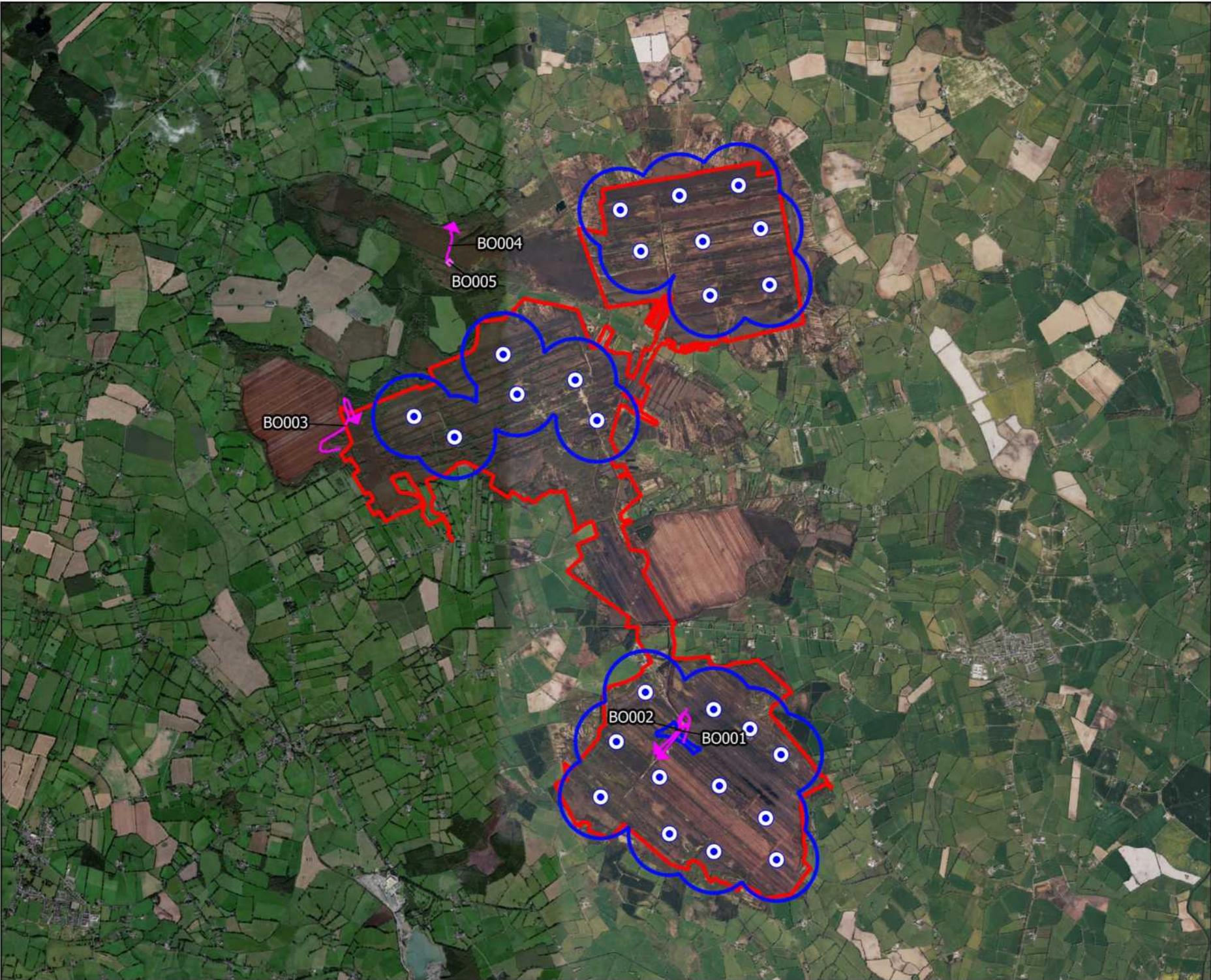
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Table 10 Barn Owl Survey Data

Vantage Point Surveys												
Map 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
BO001	VP13	16/10/2020	19:22	Barn Owl	1	180	180	0	0	0	cutover bog and scrub; foraging, flew towards and right by surveyor from north of VP. began circling the surveyor to within 5-10m occasionally dropping onto ground briefly and taking back up. then flew away south-westwards along railway line	KB
BO002	VP13	16/10/2020	19:26	Barn Owl	1	30	30	0	0	0	cutover bog and scrub; foraging, flew back to VP from south along railway line, began circling surveyor again to within 5-10m... flew into surveyor's face! (Who screamed) and turned abruptly back away flying south westwards along railway line	KB
BO003	VP10	22/10/2020	18:50	Barn Owl	1	90	90	0	0	0	cutover bog and scrub; foraging, foraging along track. flew up and down a few times beside surveyor. dropped onto ground for a few seconds and took back up flying south along track	KB
BO004	VP1	06/09/2021	20:49	Barn Owl	2	40	40	0	0	0	cutover bog and bog woodland; flying, calling, single barn owl initially observed flying at low altitude towards VP1 and was heard making hissing sound. was joined by a second bird which seemed to have approached the area from the east. both birds last seen flying together heading north.	CR

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
BO005	VP1	06/09/2021	20:40	Barn Owl	1	cutover bog; calling, barn owl heard making harsh hissing sound.	CR

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BO001	Connectivity Vantage Point Survey, driving on n52 on way to CMVP 2	29/11/2020		Barn Owl	1		KB
BO002	Vantage Point Survey, off-site	14/01/2021	07:10	Barn Owl	1	improved agricultural grassland; travelling, potential BO glimpsed in headlights crossing hedgerow on way to VP	DW
BO003	Vantage Point Survey, near Ballivor compound	01/09/2021	21:30	Barn Owl	1	dry calcareous and neutral grassland; screech heard	DW
BO004	Vantage Point Survey, VP15	02/09/2021	21:25	Barn Owl	1	improved agricultural grassland; screech heard from field	DW
BO005	Vantage Point Survey, royal county model flying club (near VP1)	06/09/2021	21:15	Barn Owl	1	cutover bog: flying, barn owl initially observed perched on model airplane before leaving the site heading south. possibly one of the two owls observed from VP1 25 minutes earlier?	CR
BO006	Vantage Point Survey, Ballivor model flying club	09/11/2021	17:50	Barn Owl	1	bogs; hunting around club grounds and edges, lots of whitewash in model flying club hut. owl box at the side	JM
BO007	Vantage Point Survey, royal model plane, Ballivor	15/02/2022	06:40	Barn Owl	1	bogs and improved agricultural grassland; calling, only heard calling not seen	JM
BO008	Waterbird Distribution Survey, Reynella Lake	28/03/2022	14:30	Barn Owl	1		DM
BO009	Breeding Raptor Survey, BRVP2	07/04/2022	21:30	Barn Owl	1	improved agricultural grassland; hunting, adult owl seen flashing across road in front of car	NM
BO011	Vantage Point Survey, outside 5km	11/05/2022	22:40	Barn Owl	1	buildings and artificial surfaces; travelling, by shed	KS
BO012	Breeding Woodcock Survey, WKT3	13/06/2022	22:50	Barn Owl	1	improved agricultural grassland and conifer plantation; hunting/travelling, adult male seen foraging along verge	NM



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline
- ◆ Observation



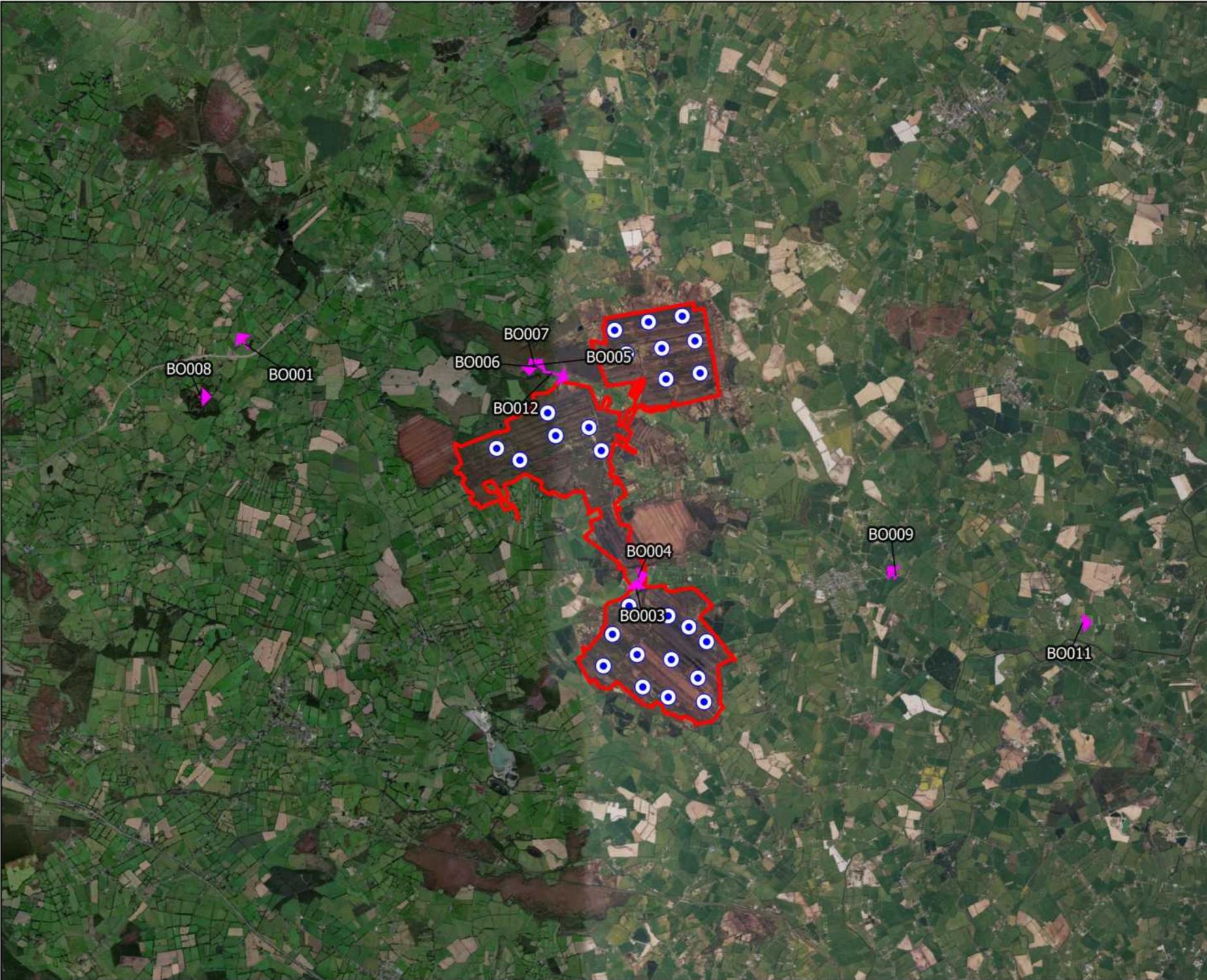
Drawing Title
**Barn Owl Observations
 Vantage Point Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.1.9
Scale 1:60000	Date 14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline



Drawing Title	
Barn Owl Incidental Observations	
Project Title	
Ballivor Wind Farm	
Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.12.7
Scale	Date
1:105000	14.02.23
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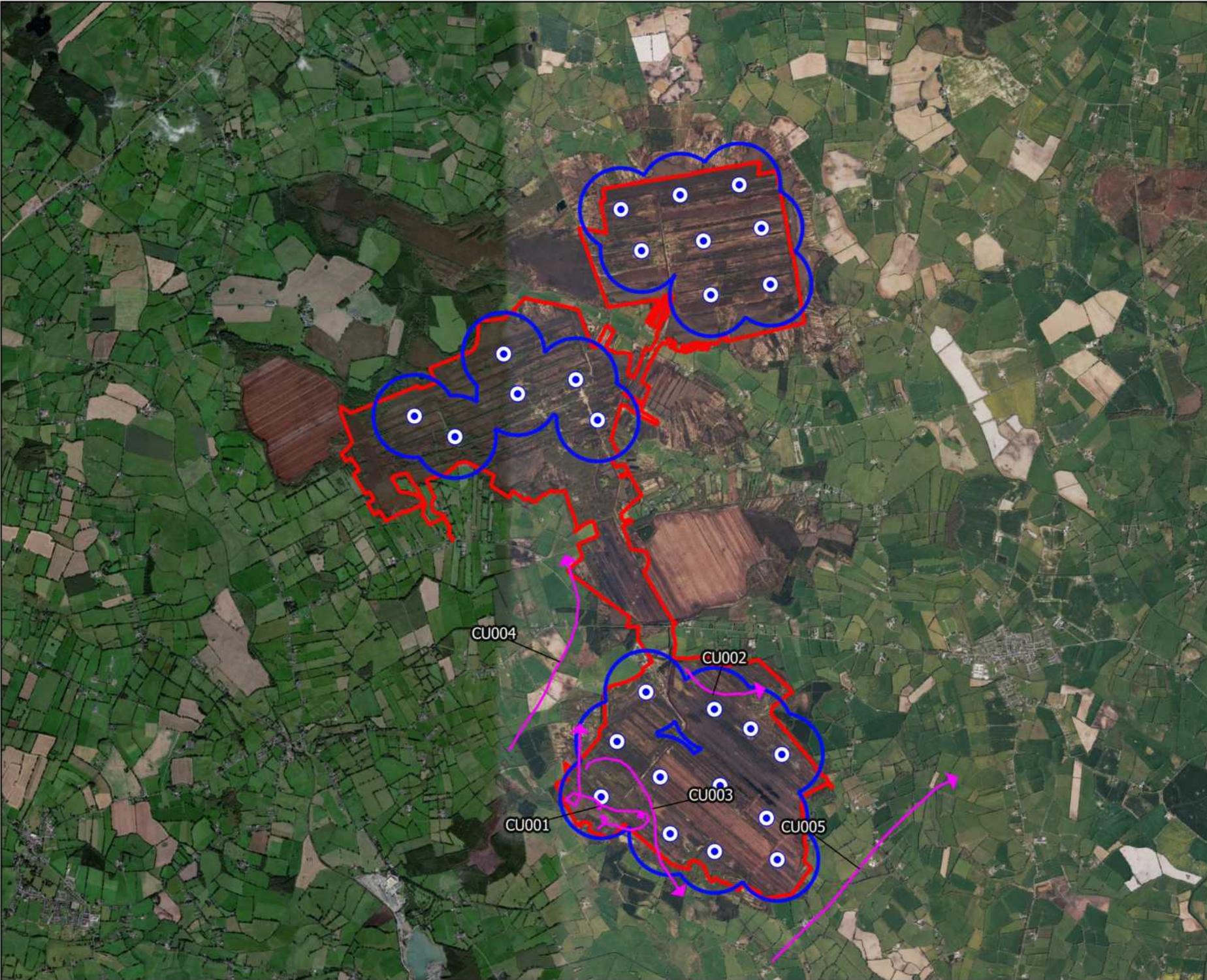
Table 11 Curlew Survey Data

Vantage Point Surveys												
Map 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	VP16	09/11/2020	13:58	Curlew	8	60	0	60	0	0	cutover bog; travelling over bog	KB
CU002	VP13	23/03/2021	06:36	Curlew	2	50	45	5	0	0	cutover bog, reed and large sedge swamps and wet grassland; flying low over cutover bog - patches of wet grass and reedy pools existed all over bog NW of VP, haunting call. emerging from overnight roost?	NM
CU003	VP16	21/05/2021	07:12	Curlew	1	30	5	25	0	0	cutover bog; flushed up from ground as mas flew over	KB
CU004	VP14	01/09/2021	20:21	Curlew	37	580	0	0	580	0	improved agricultural grassland and cutover bog; travelling	DW
CU005	VP15	02/09/2021	19:29	Curlew	63	610	0	0	610	0	improved agricultural grassland; travelling, distant, but looked to be cu flock	DW

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
CU001	23/10/2020	10:27	Curlew	1	wet grassland; brief call	JC

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
CU001		15/03/2021	13:28	Curlew	6	reed and large sedge swamps, fens and flushes and wet grassland; foraging within wet swamp / pool system	NM

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
CU001	Wintering Golden Plover Survey, Lough glass north, near Lough bane	19/01/2022	14:20	Curlew	23	lakes and ponds and improved agricultural grassland; travelling	JM



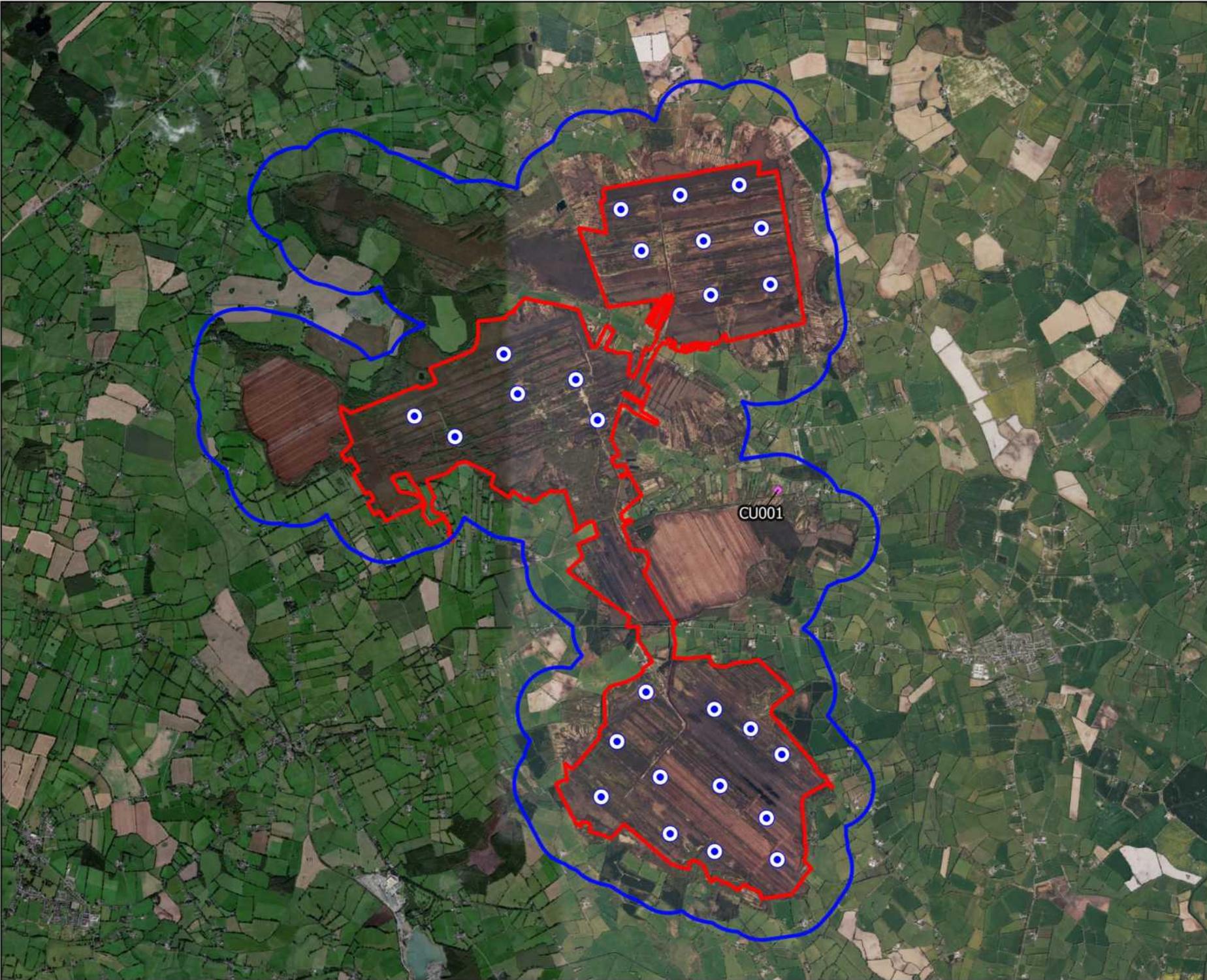
Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  500m Turbine Buffer
-  Flightline



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<p>Drawing Title</p> <p>Curlew Observations Vantage Point Surveys</p>	
<p>Project Title</p> <p>Ballivor Wind Farm</p>	
<p>Drawn By</p> <p>P. Manley</p>	<p>Checked By</p> <p>P. Cregg</p>
<p>Project No.</p> <p>191137</p>	<p>Drawing No.</p> <p>Fig. 7.1.10</p>
<p>Scale</p> <p>1:60000</p>	<p>Date</p> <p>14.02.23</p>
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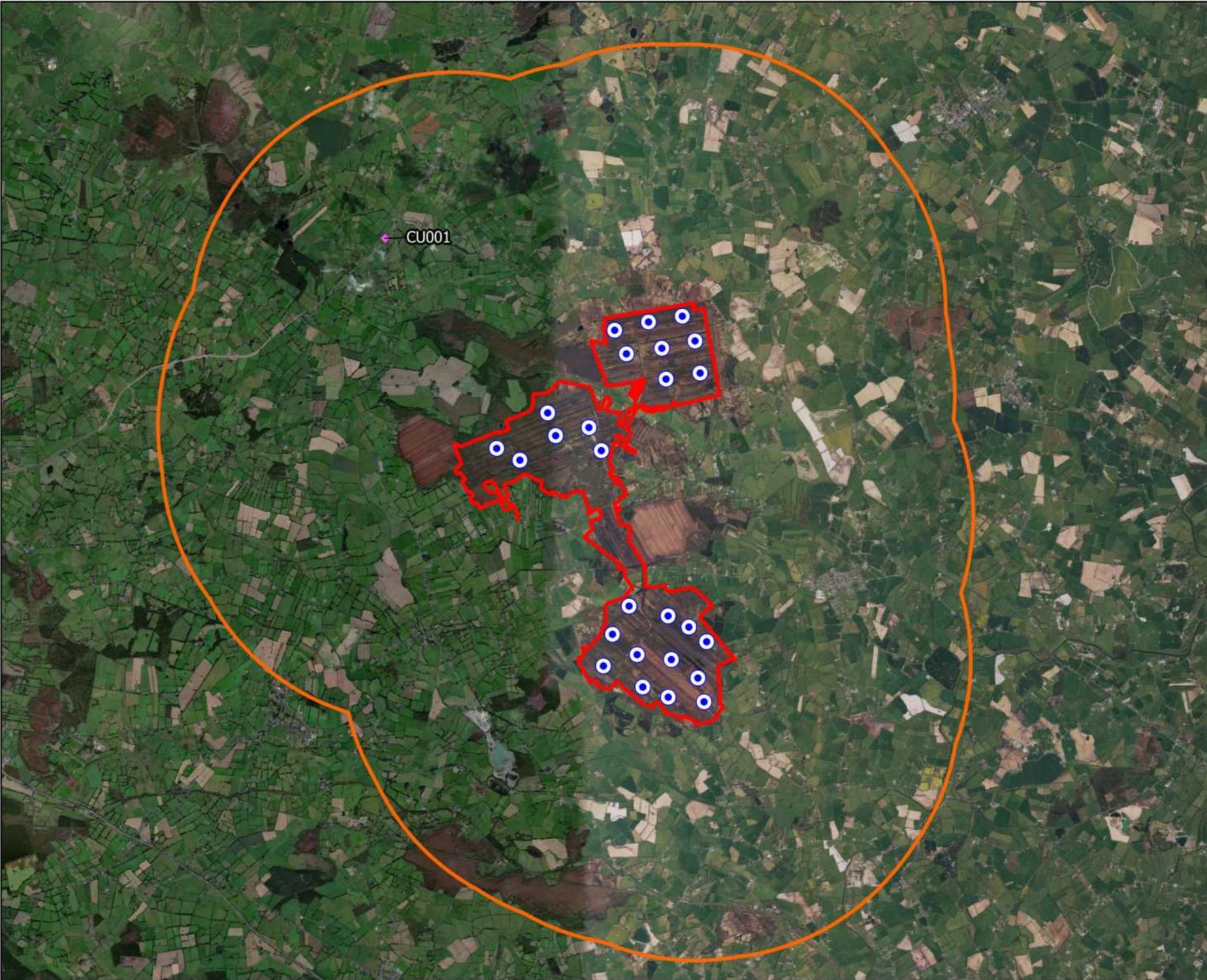
Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- ◆ Observation



<p><small>Drawing Title</small></p> <p>Curlew Observations Winter Walkover Surveys</p>	
<p><small>Project Title</small></p> <p>Ballivor Wind Farm</p>	
<small>Drawn By</small>	<small>Checked By</small>
P. Manley	P. Cregg
<small>Project No.</small>	<small>Drawing No.</small>
191137	Fig. 7.7.6
<small>Scale</small>	<small>Date</small>
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Survey Area
-  Observation



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Drawing Title
**Curlew Observations
 Waterbird Distribution Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.8.5
Scale 1:105000	Date 14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline



Drawing Title	
Curlew Incidental Observations	
Project Title	
Ballivor Wind Farm	
Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.12.8
Scale	Date
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Table 12 Kestrel Survey Data

Vantage Point Surveys												
Map 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
K050	VP6	05/05/2020	11:14	Kestrel	1	316		10	306		bogs and bog woodland; hovering and soaring over viewshed, then lost in glare of sky	PC
K041	VP11	19/05/2020	05:17	Kestrel	1	620		300	320		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
K042	VP11	19/05/2020	05:32	Kestrel	1	240		120	120		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
K043	VP11	19/05/2020	05:37	Kestrel	1	120	20	100			mixed broadleaved/conifer woodland and cutover bog; hunting, dropped onto bog	DM
K044	VP11	19/05/2020	05:42	Kestrel	1	180		80	100		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
K045	VP11	19/05/2020	05:53	Kestrel	1	180		20	160		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
K046	VP11	19/05/2020	08:40	Kestrel	1	420			420		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
K047	VP16	20/05/2020	08:57	Kestrel	1	90			90		mixed broadleaved/conifer woodland and cutover bog; travelling	DM
K048	VP16	20/05/2020	09:47	Kestrel	1	200			200		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
K270	VP2	21/05/2020	07:10	Kestrel	1	161	161				bogs; male quartering low over bog with occasional hovering. dropped into heather 3 times, didn't see him emerge the third time.	PC
K271	VP2	21/05/2020	08:50	Kestrel	1	86	35	51			bog woodland and bogs; female travelled across viewshed, occasionally hovering and soaring. lost behind treeline.	PC
K272	VP2	21/05/2020	10:28	Kestrel	1	68	3	45	20		bog woodland and bogs; brief soaring and hovering before travelling off to	PC

Vantage Point Surveys												
Map 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
											the south. sex indeterminate in the glare.	
K049	VP9	21/05/2020	11:00	Kestrel	1	180				180	mixed broadleaved/conifer woodland and cutover bog; circling	DM
K273	VP2	21/05/2020	11:40	Kestrel	1	17	17				bog woodland; hovering then lost behind treeline. heat haze a problem!	PC
K051	VP10	02/06/2020	18:25	Kestrel	1	120			120		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K066	VP6	03/06/2020	06:40	Kestrel	1	39		39			bog woodland and bogs; male travelled through viewshed from behind woodland to right of VP6	PC
K052	VP13	03/06/2020	15:23	Kestrel	1	240		140	100		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K053	VP13	03/06/2020	18:25	Kestrel	1	60		20	40		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K054	VP14	15/06/2020	15:43	Kestrel	1	300			300		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K055	VP14	15/06/2020	15:45	Kestrel	1	150		30	120		cutover bog and mixed broadleaved/conifer woodland; travelling, 2nd bird carrying food	DM
K056	VP14	15/06/2020	15:54	Kestrel	1	180			180		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K057	VP15	16/06/2020	15:32	Kestrel	1	260			260		cutover bog and mixed broadleaved/conifer woodland; hunting	DM

Vantage Point Surveys												
Map 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
K058	VP15	16/06/2020	15:47	Kestrel	1	240	10	20	210		cutover bog and mixed broadleaved/conifer woodland; hunting, descended below tree line	DM
K059	VP15	16/06/2020	17:50	Kestrel	1	840			840		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K060	VP15	16/06/2020	18:10	Kestrel	1	480			480		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K061	VP15	16/06/2020	18:32	Kestrel	1	500	10	20	470		cutover bog and mixed broadleaved/conifer woodland; hunting, descended onto bog	DM
K062	VP16	17/06/2020	14:27	Kestrel	1	45		45			cutover bog and mixed broadleaved/conifer woodland; travelling, landed on birch tree	DM
K063	VP16	17/06/2020	17:01	Kestrel	1	180			180		cutover bog and mixed broadleaved/conifer woodland; circling, then travelling	DM
K064	VP16	17/06/2020	18:27	Kestrel	1	400			400		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K065	VP9	22/06/2020	12:09	Kestrel	1	180			180		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K091	VP3	01/07/2020	05:55	Kestrel	1	18	18				bogs; flew low over bog, didn't come up above skyline. lost behind bushes and scrub in front of VP.	PC
K092	VP4	02/07/2020	07:29	Kestrel	1	72	7	65			bog woodland and bogs; spotted flying past windspeed mast. travelled across viewshed to north, hovered once then carried on. lost behind scrub and trees.	PC

Vantage Point Surveys												
Map 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
K067	VP14	10/07/2020	13:18	Kestrel	1	30		30			cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, not mapped	DM
K068	VP14	10/07/2020	13:36	Kestrel	1	100		20	80		cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, adult female, not mapped	DM
K069	VP14	10/07/2020	15:28	Kestrel	1	135		35	100		cutover bog and mixed broadleaved/conifer woodland; travelling, not mapped	DM
K070	VP14	10/07/2020	17:37	Kestrel	1	300			300		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
K072	VP15	13/07/2020	08:10	Kestrel	1	45		45			cutover bog and mixed broadleaved/conifer woodland; travelling-descended below tree line, not mapped	DM
K073	VP15	13/07/2020	09:15	Kestrel	1	250			250		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
K074	VP15	13/07/2020	12:09	Kestrel	1	360		20	340		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
K075	VP15	13/07/2020	12:15	Kestrel	1	65		15	50		cutover bog and mixed broadleaved/conifer woodland; 2nd bird hunting- both dropped to bog, not mapped	DM
K076	VP15	13/07/2020	12:22	Kestrel	1						cutover bog; perched on dead tree, not mapped	DM

Vantage Point Surveys												
Map 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
K077	VP15	13/07/2020	12:24	Kestrel	2	120		20	100		cutover bog and mixed broadleaved/conifer woodland; hunting-then separated, not mapped	DM
K078	VP15	13/07/2020	13:54	Kestrel	1	35	15	20			cutover bog and mixed broadleaved/conifer woodland; flew behind peat row, not mapped	DM
K079	VP15	13/07/2020	14:09	Kestrel	1	55		55			cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, not mapped	DM
K080	VP15	13/07/2020	14:15	Kestrel	1	35		35			cutover bog and mixed broadleaved/conifer woodland; travelling-descended below tree line, not mapped	DM
K081	VP16	14/07/2020	08:38	Kestrel	1	60		60			cutover bog and mixed broadleaved/conifer woodland; travelling, not mapped	DM
K082	VP16	14/07/2020	14:23	Kestrel	1	65		15	50		cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, not mapped	DM
K093	VP3	15/07/2020	09:27	Kestrel	1	28	28				bogs and bog woodland; male appeared hovering near edge of viewshed. flew towards woodland at NW of viewshed, lost behind heather and scrub as he was so low.	PC
K094	VP3	15/07/2020	09:40	Kestrel	1	186	186				bogs and bog woodland; k001 reappeared from woodland to nw. hunting, hovering low over bog then headed off into gloom towards woodland.	PC

Vantage Point Surveys												
Map 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
K083	VP11	15/07/2020	14:26	Kestrel	1	180	20	50	110		cutover bog and mixed broadleaved/conifer woodland; hunting-flew into birch wood, not mapped	DM
K085	VP8	24/07/2020	12:56	Kestrel	1	20	20				peatlands; flying and hunting, male; perhaps same bird as obs. 1	ED
K086	VP7	24/07/2020	15:25	Kestrel	1	35		35			peatlands; in flight, male	ED
K087	VP15	25/07/2020	16:25	Kestrel	1	15	15		340			ED
K088	VP6	28/07/2020	17:05	Kestrel	1	20			20			ED
K089	VP3	29/07/2020	12:18	Kestrel	1	40		40			peatlands; flying, male	ED
K090	VP3	29/07/2020	18:40	Kestrel	1	20		20			peatlands and conifer plantation; flying	ED
K084	VP12	30/07/2020	12:50	Kestrel	1	30	30				cutover bog; landed on peat pile-possible juv., not mapped	DM
K100	VP6	04/08/2020	13:40	Kestrel	1	169	15	154			bog woodland and bogs; male travelled west to east across viewshed, hovering from time to time. lost against clouds., not mapped	PC
K095	VP10	05/08/2020	17:55	Kestrel	1	120	10	50	60		mixed broadleaved/conifer woodland and cutover bog; landed on peat bog and chased insects	DM
K096	VP10	05/08/2020	18:09	Kestrel	1	180	10	20	150		mixed broadleaved/conifer woodland and cutover bog; hunting, juv. male	DM
K101	VP5	06/08/2020	10:50	Kestrel	1	6	6				bog woodland; spotted hovering in distance, quickly lost behind treeline, not mapped	PC
K102	VP5	06/08/2020	11:32	Kestrel	1	166	61	105			bog woodland and bogs; hovering and circling near VP3, eventually lost in the gloom. first 90secs of flight k002 was on its own, then joined by k003, not mapped	PC

Vantage Point Surveys												
Map 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
K103	VP5	06/08/2020	11:33	Kestrel	1	76		76			bog woodland and bogs; came up to join k002, not sure where from. interaction between the two, circling together before k002 headed west and k003 east., not mapped	PC
K104	VP5	06/08/2020	12:35	Kestrel	1	285	220	65			bog woodland and bogs; hovering and circling, travelling over viewshed being mobbed by hirundines. female or juvenile. headed west over viewshed 2., not mapped	PC
K105	VP5	06/08/2020	13:00	Kestrel	1	438	293	145			bog woodland and bogs; hunting again. dropped into scrub opposite VP, came up with small prey item but carried on hunting. couldn't see what the prey was. lost behind treeline., not mapped	PC
K106	VP5	06/08/2020	13:50	Kestrel	1	920	810	110			bog woodland and bogs; hunting again. following same pattern of hovering and circling. k008 came up to join it briefly., not mapped	PC
K107	VP5	06/08/2020	13:54	Kestrel	1	30	30				bog woodland and bogs; joined k007 briefly then headed east over viewshed 4. flight time is estimated as I was timing k007. both k007 and k008 lost against the clouds., not mapped	PC
K108	VP4	11/08/2020	13:50	Kestrel	1	158	62	98			bog woodland; appeared in front of VP, not sure where it came from. circled and hovered over viewshed before heading south., not mapped	PC
K109	VP4	11/08/2020	13:54	Kestrel	1	80	10	70			bog woodland; came up from scrub northeast to join k002. appeared to be eating prey on the wing before	PC

Vantage Point Surveys												
Map 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
											heading east. probably a large insect as it was a small prey item., not mapped	
K110	VP4	11/08/2020	14:14	Kestrel	1	112	45	57			bog woodland; caught large insect on the wing and settled on wind speed mast. then flew south, settling briefly on low tree before heading south with k005., not mapped	PC
K111	VP4	11/08/2020	14:16	Kestrel	1	10	10				bog woodland; came up out of scrub to join k004 before I lost both birds behind the scrub heading south., not mapped	PC
K112	VP4	11/08/2020	14:39	Kestrel	1	41	19	22			bog woodland; flew out of viewshed 5, circled then dropped into scrub not far from mast to southeast., not mapped	PC
K113	VP4	11/08/2020	15:05	Kestrel	1	239	45	194			bog woodland; circling and hunting over viewshed, initially heading north. brief foray into viewshed 5 then back into viewshed 4 heading south., not mapped	PC
K114	VP4	11/08/2020	15:09	Kestrel	1	152	35	117			bog woodland; came up as other kestrel passed overhead. seemed to be in scrub opposite VP. followed other kestrel southwards hunting as it went., not mapped	PC
K115	VP4	11/08/2020	16:10	Kestrel	1	8	8				bog woodland; very brief flight over viewshed. not sure where it came from. headed west over viewshed 5 in direct flight, not hunting., not mapped	PC
K116	VP4	11/08/2020	16:30	Kestrel	1	254	15	239			bog woodland; flew across viewshed hovering briefly before settling on mast. another brief flight then settled	PC

Vantage Point Surveys												
Map 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
											on mast again. then headed north from mast hovering and circling. lost over viewshed 3., not mapped	
K117	VP3	12/08/2020	15:00	Kestrel	1	8	8				bog woodland; first spotted perched on top of phone mast opposite the VP at 1440. brief flight at 1500 then back to top of mast., not mapped	PC
K118	VP2	14/08/2020	12:20	Kestrel	1	18	18				bog woodland; flew across road, settled in tree. didn't see it leave tree, must have dropped into woods., not mapped	PC
K119	VP2	14/08/2020	12:40	Kestrel	1	8	8				cutover bog; glimpsed flying low over bog. lost against trees., not mapped	PC
K120	VP2	14/08/2020	15:10	Kestrel	1	10	10				bog woodland; flew out of woodland heading east and settled in tree near Ballyhealy road. didn't see where it went from there., not mapped	PC
K097	VP7	18/08/2020	15:27	Kestrel	1	180		80	100		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
K124	VP15	18/08/2020	16:46	Kestrel	1	75	55	20			cutover bog and bog woodland; initially interacting with sparrowhawk, then hovering	PT
K125	VP15	18/08/2020	16:53	Kestrel	1	90	90				cutover bog; hovering	PT
K126	VP15	18/08/2020	16:56	Kestrel	1	21	21				cutover bog and bog woodland; initially hovering	PT
K098	VP7	18/08/2020	16:57	Kestrel	1	95			95		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
K127	VP15	18/08/2020	19:37	Kestrel	1	45		45			cutover bog; direct flight	PT
K099	VP12	25/08/2020	19:17	Kestrel	1	65		30	35		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
K121	VP1	27/08/2020	16:40	Kestrel	1	20	0	20	0	0	raised bog; hunting	PM

Vantage Point Surveys												
Map 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
K122	VP1	27/08/2020	17:17	Kestrel	1	10	10	0	0	0	raised bog; flew from dead tree low across bog	PM
K123	VP1	27/08/2020	17:26	Kestrel	1	136	0	0	136	0	raised bog; travelling	PM
K128	VP16	28/08/2020	16:29	Kestrel	1	1010	150	735	125		raised bog and bog woodland; prolonged hunting/hovering, dropped down at end of flight, height typically c.15m (max 40m)	PT
K129	VP16	28/08/2020	19:16	Kestrel	1	180	30	150			raised bog and bog woodland; hunting, initially perched on small birch	PT
K130	VP1	29/08/2020	16:07	Kestrel	1	325			325		raised bog, hedgerows and conifer plantation; hunting by hovering	PW
K131	VP1	29/08/2020	17:49	Kestrel	1	269			269		raised bog, scrub and mixed broadleaved woodland; hunting by hovering	PW
K132	VP10	08/09/2020	11:05	Kestrel	1	120	20	20	80		cutover bog and mixed broadleaved/conifer woodland; hunting, landed on peat pile	DM
K133	VP10	08/09/2020	11:08	Kestrel	2	150	20	50	80		cutover bog; flying along peat pile and landed	DM
K134	VP10	08/09/2020	12:07	Kestrel	1	30		20	10		cutover bog and mixed broadleaved/conifer woodland; hunting, mobbed by BZ, descended below tree line	DM
K135	VP10	08/09/2020	12:14	Kestrel	2	180			180		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K136	VP10	08/09/2020	12:20	Kestrel	2	90	70	20			cutover bog; landed on peat bog	DM
K137	VP11	09/09/2020	10:04	Kestrel	1	100			100		cutover bog and mixed broadleaved/conifer woodland; travelling, descended below tree line	DM

Vantage Point Surveys												
Map 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
K138	VP14	16/09/2020	11:08	Kestrel	1	110			110		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K139	VP4	22/09/2020	07:39	Kestrel	1	22	0	22	0	0	cutover bog; hunting	DW
K140	VP4	22/09/2020	09:01	Kestrel	1	182	22	160	0	0	cutover bog; travelling and hovering	DW
K141	VP4	22/09/2020	10:12	Kestrel	1	423	93	190	140	0	cutover bog; hunting, adult female	DW
K142	VP4	22/09/2020	10:20	Kestrel	1	30	10	20	0	0	cutover bog; hunting	DW
K143	VP4	22/09/2020	10:25	Kestrel	1	174	0	104	70	0	cutover bog; hunting	DW
K144	VP4	22/09/2020	10:36	Kestrel	1	104	0	64	50	0	cutover bog; hunting	DW
K145	VP4	22/09/2020	10:48	Kestrel	1	42	42	0	0	0	cutover bog; hunting and diving	DW
K146	VP4	22/09/2020	12:19	Kestrel	1	41	15	26	0	0	cutover bog; hunting	DW
K147	VP3	23/09/2020	11:05	Kestrel	2	192	30	100	62	0	cutover bog; travelling together	DW
K148	VP6	29/09/2020	10:04	Kestrel	1	12	12	0	0	0	cutover bog; travelling	DW
K149	VP1	30/09/2020	11:55	Kestrel	1	32	32	0	0	0	cutover bog; hunting	DW
K150	VP5	08/10/2020	13:51	Kestrel	1	13	13	0	0	0	cutover bog; hunting, dove to ground	DW
K151	VP5	08/10/2020	14:31	Kestrel	1	106	0	56	50	0	cutover bog; hunting	DW
K152	VP5	08/10/2020	14:56	Kestrel	1	87	7	40	40	0	cutover bog and improved agricultural grassland; travelling and hunting	DW
K153	VP5	08/10/2020	15:08	Kestrel	1	61	0	51	10	0	cutover bog and improved agricultural grassland; hunting	DW
K154	VP5	08/10/2020	15:12	Kestrel	1	48	0	48	0	0	cutover bog; hunting	DW
K155	VP5	08/10/2020	15:48	Kestrel	1	36	6	30	0	0	cutover bog; hunting	DW
K156	VP4	09/10/2020	15:35	Kestrel	1	42	12	30	0	0	cutover bog; hunting	DW
K157	VP4	09/10/2020	16:04	Kestrel	1	97	0	27	70	0	cutover bog; travelling and hunting	DW
K170	VP11	13/10/2020	13:05	Kestrel	1	30	15	15	0	0	cutover bog and immature woodland; foraging	KB

Vantage Point Surveys												
Map 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
K171	VP11	13/10/2020	14:16	Kestrel	1	60	20	40	0	0	cutover bog and immature woodland; foraging, flew across bog and descended into trees	KB
K158	VP1	13/10/2020	16:48	Kestrel	1	31	31	0	0	0	cutover bog; flying low over bog, adult female	DW
K159	VP1	13/10/2020	16:58	Kestrel	1	157	57	100	0	0	cutover bog and improved agricultural grassland; hunting, dove to ground	DW
K160	VP3	23/10/2020	12:48	Kestrel	1	419	269	100	50	0	cutover bog and conifer plantation; hunting	DW
K161	VP3	23/10/2020	13:20	Kestrel	1	177	17	50	110	0	bogs; hunting	DW
K162	VP3	23/10/2020	13:40	Kestrel	1	574	74	150	350	0	improved agricultural grassland; travelling and hovering at height	DW
K163	VP3	23/10/2020	13:46	Kestrel	1	62	0	62	0	0	improved agricultural grassland; hunting	DW
K164	VP3	23/10/2020	14:02	Kestrel	1	412	312	50	50	0	bogs; hunting, dove to ground	DW
K165	VP3	23/10/2020	14:23	Kestrel	1	363	213	100	50	0	bogs; hunting	DW
K166	VP3	23/10/2020	14:24	Kestrel	1	199	29	170	0	0	bogs; hunting	DW
K167	VP3	23/10/2020	14:43	Kestrel	1	246	96	150	0	0	improved agricultural grassland; hunting	DW
K168	VP3	23/10/2020	17:37	Kestrel	1	191	21	80	90	0	improved agricultural grassland and cutover bog; hunting	DW
K169	VP3	23/10/2020	17:51	Kestrel	1	138	8	100	30	0	improved agricultural grassland and cutover bog; hunting and travelling	DW
K172	VP6	26/10/2020	12:01	Kestrel	1	20	0	5	15	0	cutover bog and immature woodland; foraging, female adult	KB
K173	VP6	26/10/2020	13:11	Kestrel	1	10	2	8	0	0	cutover bog and immature woodland; foraging, female adult	KB
K174	VP15	28/10/2020	17:32	Kestrel	1	18	18	0	0	0	cutover bog; flying and perched, flew across bog perching in open for 180s before continuing to fly across bog off out of view. flying for 18s.	PW

Vantage Point Surveys												
Map 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
K179	VP4	03/11/2020	10:58	Kestrel	1	24	0	24	0	0	cutover bog; hunting	DW
K175	VP15	03/11/2020	11:15	Kestrel	1	36	0	2	34	0	cutover bog; hunting by hovering, hovering and flying at height before dropping down in dive to below PCH and behind treeline out of view.	PW
K180	VP4	03/11/2020	12:07	Kestrel	1	167	27	80	60	0	cutover bog; hunting	DW
K176	VP15	03/11/2020	13:03	Kestrel	1	125	0	0	125	0	cutover bog; hunting by hovering	PW
K177	VP15	03/11/2020	13:04	Kestrel	1	2	0	2	0	0	cutover bog; flying, spotted briefly when following GP flocks	PW
K178	VP15	03/11/2020	13:18	Kestrel	1	41	41	0	0	0	cutover bog; hunting by hovering, dropped down behind birch in dive out of view. female.	PW
K182	VP8	13/11/2020	07:33	Kestrel	1	240	0	0	240	0	cutover bog; hunting	DM
K183	VP8	13/11/2020	07:45	Kestrel	1	95	0		95	0	mixed broadleaved/conifer woodland and cutover bog; travelling	DM
K184	VP8	13/11/2020	11:43	Kestrel	1	300	0	0	300	0	cutover bog; hunting	DM
K185	VP8	13/11/2020	13:01	Kestrel	1	300	0	0	300	0	cutover bog; hunting	DM
K186	VP12	17/11/2020	12:02	Kestrel	1	30	0	30		0	mixed broadleaved/conifer woodland and cutover bog; travelling, flew behind birch trees	DM
K181	VP2	23/11/2020	08:49	Kestrel	1	697	250	447	0	0	cutover bog, conifer plantation and improved agricultural grassland; hunting	DW
K187	VP4	03/12/2020	12:00	Kestrel	1	29	0	9	20	0	cutover bog; hunting	DW
K188	VP4	03/12/2020	12:43	Kestrel	1	91	5	56	30	0	cutover bog; hunting	DW
K189	VP4	03/12/2020	12:59	Kestrel	1	123	0	63	60	0	cutover bog; hunting	DW
K195	VP10	03/12/2020	13:11	Kestrel	1	60	60	0	0	0	cutover bog; landed on bog with mouse, adult male	DM

Vantage Point Surveys												
Map 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
K196	VP10	03/12/2020	13:16	Kestrel	1	200	0	0	200	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K197	VP10	03/12/2020	13:35	Kestrel	1	240	0	0	240	0	cutover bog and mixed broadleaved/conifer woodland; hunting, dropped to bog	DM
K190	VP4	03/12/2020	15:57	Kestrel	1	93	0	40	53	0	cutover bog; travelling and hovering	DW
K191	VP3	14/12/2020	14:54	Kestrel	1	59	30	29	0	0	cutover bog and scrub; hunting	DW
K192	VP5	17/12/2020	12:18	Kestrel	1	111	31	80	0	0	cutover bog and scrub; hunting and travelling	DW
K193	VP6	21/12/2020	11:43	Kestrel	1	22	22	0	0	0	cutover bog; flying low	DW
K194	VP2	22/12/2020	13:11	Kestrel	1	38	28	10	0	0	cutover bog and improved agricultural grassland; hunting, flying from perch in tree and back	DW
K213	VP15	09/01/2021	11:30	Kestrel	1	90	0	0	90	0	cutover bog; travelling	KB
K212	VP10	14/01/2021	09:26	Kestrel	1	45	0	0	45	0	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
K198	VP3	15/01/2021	12:01	Kestrel	1	22	22	0	0	0	cutover bog; hunting, landed among heather	DW
K199	VP3	15/01/2021	12:14	Kestrel	1	103	13	60	30	0	cutover bog; hunting	DW
K200	VP3	15/01/2021	12:57	Kestrel	1	530	100	400	30	0	improved agricultural grassland; hunting	DW
K201	VP3	15/01/2021	13:00	Kestrel	1	182	22	120	40	0	cutover bog; hunting, travelling to/from perch on comm tower	DW
K202	VP3	15/01/2021	13:08	Kestrel	1	181	0	81	100	0	cutover bog and scrub; hunting	DW
K203	VP3	18/01/2021	13:52	Kestrel	1	54	54	0	0	0	cutover bog; flying low over bog	DW
K204	VP3	18/01/2021	13:53	Kestrel	1	89	9	60	30	0	cutover bog; hunting	DW
K205	VP2	20/01/2021	12:01	Kestrel	1	148	38	90	20	0	mixed broadleaved woodland; hunting and travelling	DW

Vantage Point Surveys												
Map 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
K206	VP6	21/01/2021	09:20	Kestrel	1	47	40	7	0	0	improved agricultural grassland; travelling and hunting	DW
K207	VP6	21/01/2021	09:53	Kestrel	1	153	33	90	30	0	cutover bog; hunting	DW
K208	VP6	21/01/2021	11:37	Kestrel	1	26	26	0	0	0	cutover bog; flying low	DW
K209	VP6	21/01/2021	11:46	Kestrel	1	61	11	40	10	0	cutover bog; hunting, dove to ground	DW
K210	VP6	21/01/2021	12:21	Kestrel	1	12	12	0	0	0	cutover bog and scrub; \hunting from perch in conifer	DW
K211	VP6	21/01/2021	13:40	Kestrel	1	390	50	300	40	0	cutover bog; hunting	DW
K214	VP7	04/02/2021	14:26	Kestrel	1	165	0	115	50	0	cutover bog and improved agricultural grassland; hunting	DW
K215	VP7	04/02/2021	14:40	Kestrel	1	204	0	54	150	0	cutover bog and scrub; hunting and travelling, hovering at height	DW
K216	VP5	08/02/2021	13:03	Kestrel	1	373	0	273	100	0	cutover bog, scrub and improved agricultural grassland; hunting	DW
K217	VP5	08/02/2021	13:25	Kestrel	1	310	0	160	150	0	cutover bog; hunting, 1of2 k. in viewshed at same time	DW
K218	VP5	08/02/2021	13:25	Kestrel	1	90	0	60	30	0	improved agricultural grassland; hunting, 2of 2 k. in viewshed at same time	DW
K219	VP5	08/02/2021	14:38	Kestrel	1	131	11	70	50	0	cutover bog and scrub; hunting, dove to ground	DW
K220	VP1	09/02/2021	13:54	Kestrel	1	310	0	160	150	0	cutover bog; hunting	DW
K221	VP1	09/02/2021	14:38	Kestrel	1	65	0	45	20	0	cutover bog and mixed broadleaved woodland; hunting	DW
K222	VP1	09/02/2021	16:10	Kestrel	1	455	75	300	80	0	cutover bog; hunting	DW
K223	VP1	09/02/2021	16:23	Kestrel	1	210	0	20	198	0	improved agricultural grassland and conifer plantation; gliding	DW
K224	VP1	09/02/2021	16:55	Kestrel	1	45	20	25	0	0	cutover bog and mixed broadleaved woodland; travelling	DW

Vantage Point Surveys												
Map 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
K242	VP12	10/02/2021	15:49	Kestrel	1	60	0	0	60		cutover bog; hunting/foraging, hovering, adult male	KB
K225	VP2	10/02/2021	16:18	Kestrel	1	502	0	102	400	0	cutover bog, improved agricultural grassland and scrub; hunting and traveling high	DW
K226	VP2	10/02/2021	17:02	Kestrel	1	123	23	80	20	0	cutover bog and conifer plantation; travelling	DW
K227	VP4	15/02/2021	13:28	Kestrel	1	155	0	55	100	0	cutover bog; hunting	DW
K228	VP4	15/02/2021	13:38	Kestrel	1	161	0	61	100	0	cutover bog and immature woodland; travelling, 1 of 2 k. in viewshed at same time	DW
K229	VP4	15/02/2021	13:39	Kestrel	1	65	0	65	0	0	cutover bog and scrub; hunting, 2 of 2 k. in viewshed at same time	DW
K230	VP4	15/02/2021	15:01	Kestrel	1	293	0	93	200	0	cutover bog and scrub; hunting, perched halfway up met mast	DW
K231	VP3	17/02/2021	12:46	Kestrel	1	64	44	20	0	0	cutover bog and scrub; travelling low over bog	DW
K232	VP3	17/02/2021	13:42	Kestrel	1	66	26	40	0	0	improved agricultural grassland; hunting	DW
K233	VP3	17/02/2021	14:33	Kestrel	1	95	35	40	20	0	conifer plantation and improved agricultural grassland; travelling, being mobbed by corvids	DW
K234	VP3	17/02/2021	16:41	Kestrel	1	30	20	10	0	0	conifer plantation; flying from perch on tower	DW
K240	VP9	18/02/2021	12:33	Kestrel	1	85	0	85	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, adult male	DM
K243	VP14	18/02/2021	16:13	Kestrel	1	45	2	3	40		cutover bog and immature woodland; foraging, hovering	KB
K241	VP11	22/02/2021	10:36	Kestrel	1	45	45	0	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, landed with prey	DM

Vantage Point Surveys												
Map 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
K235	VP6	22/02/2021	13:35	Kestrel	1	437	37	200	200	0	cutover bog, scrub and improved agricultural grassland; hunting and travelling	DW
K236	VP6	22/02/2021	14:04	Kestrel	1	156	0	36	120	0	cutover bog; hunting	DW
K237	VP6	22/02/2021	14:13	Kestrel	1	123	0	0	123	0	cutover bog, scrub and improved agricultural grassland; hunting high	DW
K238	VP6	22/02/2021	15:18	Kestrel	1	54	0	54	0	0	improved agricultural grassland; hunting	DW
K244	VP15	24/02/2021	13:26	Kestrel	1	20	5	15	0		cutover bog; travelling, foraging	KB
K239	VP8	24/02/2021	14:10	Kestrel	1	78	18	60	0	0	cutover bog; hunting	DW
K245	VP16	26/02/2021	16:06	Kestrel	1	30	0	30	0	0	mixed conifer woodland and cutover bog; travelling, foraging	KB
K247	VP1	04/03/2021	10:46	Kestrel	1	90	20	50	20	0	cutover bog, mixed broadleaved woodland and conifer plantation; travelling	DW
K246	VP14	17/03/2021	06:37	Kestrel	1	10	0	10	0	0	immature woodland and cutover bog; travelling/foraging	KB
K262	VP12	20/03/2021	06:57	Kestrel	1	120	0	0	120	0	cutover bog; soaring and circling high over bog and associated scrub lines	NM
K257	VP13	23/03/2021	10:08	Kestrel	1	150	0	0	150	0	scrub and cutover bog; hunting and hovering along fringe of bog - heather scrub, gorse and rushy grass	NM
K259	VP13	23/03/2021	10:43	Kestrel	1	175	0	45	130	0	cutover bog; hunting along small scrub lines within cutover bog	NM
K248	VP3	23/03/2021	10:46	Kestrel	1	193	0	53	140	0	cutover bog and scrub; hunting	DW
K249	VP3	23/03/2021	10:55	Kestrel	1	495	25	300	170	0	cutover bog, scrub and conifer plantation; hunting	DW
K258	VP13	23/03/2021	10:56	Kestrel	1	180	0	40	140	0	cutover bog, upland blanket bog and scrub; soaring high over bog before descending and proceeding to hunt	NM

Vantage Point Surveys												
Map 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
											and hover over heather scrub, heather scrub directly NW of VP	
K250	VP3	23/03/2021	11:16	Kestrel	1	177	57	120	0	0	cutover bog and scrub; hunting	DW
K251	VP3	23/03/2021	11:40	Kestrel	1	115	25	80	10	0	cutover bog and scrub; hunting	DW
K252	VP6	24/03/2021	07:47	Kestrel	1	190	0	40	150	0	cutover bog and scrub; hunting	DW
K253	VP6	24/03/2021	09:52	Kestrel	1	125	0	25	100	0	cutover bog; hunting	DW
K254	VP6	24/03/2021	10:14	Kestrel	1	204	0	0	204	0	improved agricultural grassland; hunting at height	DW
K255	VP6	24/03/2021	10:33	Kestrel	1	213	0	100	113	0	cutover bog; hunting	DW
K256	VP6	24/03/2021	10:51	Kestrel	1	75	0	0	75	0	cutover bog, scrub and improved agricultural grassland; travelling	DW
K260	VP9	29/03/2021	07:38	Kestrel	1	25	25	0	0	0	scrub, immature woodland and transition mire and quaking bog; flying low and rapidly across area, low to ground, and weaving around solitary small trees	NM
K261	VP9	29/03/2021	11:34	Kestrel	1	95	0	0	95	0	wet grassland, scrub and wet heath; hunting and hovering over heather scrub / wet grassland	NM
K274	VP8	05/04/2021	14:43	Kestrel	1	350	0	60	150	140	cutover bog and mixed broadleaved/conifer woodland; travelling, then circling	DM
K275	VP10	06/04/2021	19:04	Kestrel	1	35	35	0	0	0	cutover bog; landed on bog, possibly with prey	DM
K276	VP10	06/04/2021	19:10	Kestrel	1	60	60	0	0	0	cutover bog; travelling, descended behind peat pile	DM
K277	VP10	06/04/2021	19:21	Kestrel	1	120	0	120	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, flew behind trees	DM
K278	VP10	06/04/2021	19:42	Kestrel	1	60	60	0	0	0	cutover bog; travelling, descended behind peat pile	DM

Vantage Point Surveys												
Map 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
K279	VP1	08/04/2021	15:36	Kestrel	1	75	0	25	50	0	cutover bog and mixed broadleaved/conifer woodland; hunting, descended below tree line	DM
K280	VP9	09/04/2021	15:30	Kestrel	1	240	0	0	240	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K281	VP13	14/04/2021	16:12	Kestrel	1	35	35	0	0	0	cutover bog; flying with prey - mobbed by HC, dropped down onto heather, adult female	KB
K282	VP13	14/04/2021	16:13	Kestrel	1	3	3	0	0	0	cutover bog; took up from ground to perch on tree	KB
K283	VP13	14/04/2021	16:13	Kestrel	1	3	3	0	0	0	cutover bog; dropped back down onto heather	KB
K28	VP13	14/04/2021	16:22	Kestrel	1	300	0	300	0	0	cutover bog; hunting	KB
K285	VP13	14/04/2021	16:35	Kestrel	1	40	0	40	0	0	cutover bog; foraging	KB
K286	VP14	15/04/2021	19:46	Kestrel	1	8	4	4	0	0	cutover bog; foraging, landed on tree to perch, adult female	KB
K287	VP7	20/04/2021	15:39	Kestrel	1	100	0	0	100	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K288	VP2	23/04/2021	15:30	Kestrel	1	125	25	100	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, dropped onto bog	DM
K289	VP2	23/04/2021	15:51	Kestrel	1	150	10	70	70	0	cutover bog and mixed broadleaved/conifer woodland; hunting, male-landed in tree	DM
K290	VP2	23/04/2021	16:00	Kestrel	1	65	10	55	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, dropped onto bog	DM
K291	VP2	23/04/2021	16:03	Kestrel	1	60	0	60	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM

Vantage Point Surveys												
Map 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
K292	VP2	23/04/2021	17:14	Kestrel	1	60	0	0	60	0	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
K293	VP10	18/05/2021	07:22	Kestrel	1	70	70	0	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, flew into woodland; male	DM
K294	VP10	18/05/2021	10:15	Kestrel	1	35	35	0	0	0	cutover bog; travelling, landed on bog; male	DM
K295	VP10	18/05/2021	10:15	Kestrel	1	55	5	10	40	0	cutover bog and mixed broadleaved/conifer woodland; travelling, flew into woodland; male	DM
K296	VP10	18/05/2021	10:20	Kestrel	1	285	5	10	270	0	cutover bog and mixed broadleaved/conifer woodland; hunting, dropped rapidly onto bog	DM
K297	VP5	29/05/2021	06:18	Kestrel	1	250	0	0	250	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
K299	VP14	16/06/2021	14:07	Kestrel	1	8	8	0	0	0	cutover bog and scrub; hunting	KB
K298	VP1	16/06/2021	15:06	Kestrel	1	25	0	5	20	0	improved agricultural grassland; hunting/hovering, hovering and dropped out of sight	SI
K304	VP16	17/06/2021	12:38	Kestrel	1	1200	20	130	1000	0	cutover bog, conifer plantation and immature woodland; foraging and hovering	KB
K305	VP16	17/06/2021	15:14	Kestrel	1	15	2	13	0	0	conifer plantation; foraging and hovering	KB
K306	VP15	17/06/2021	16:05	Kestrel	1	240	10	30	200	0	cutover bog and scrub; foraging and hovering, adult female	KB
K303	VP3	17/06/2021	16:15	Kestrel	1	30	0	0	30	0	lowland blanket bog; flying/hunting/hovering, flew within buffer, hovered briefly before flying east	SI

Vantage Point Surveys												
Map 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
K307	VP15	17/06/2021	16:23	Kestrel	1	140	0	10	130	0	cutover bog; foraging and hovering, adult female	KB
K308	VP15	17/06/2021	17:38	Kestrel	1	8	0	8	0	0	cutover bog; travelling	KB
K302	VP12	17/06/2021	16:09	Kestrel	1	143	0	0	135	8	scrub, hedgerows and recolonising bare ground; hunting by hovering.	PW
K300	VP12	17/06/2021	17:32	Kestrel	1	78	0	0	78	0	mixed broadleaved woodland, recolonising bare ground and scrub; hunting by hovering and mobbing BZ.	PW
K301	VP12	17/06/2021	17:51	Kestrel	1	241	0	0	241	0	cutover bog and scrub; hunting by hovering.	PW
K309	VP15	22/06/2021	16:03	Kestrel	1	12	2	10	0	0	cutover bog; hovering - dropped down	KB
K310	VP15	22/06/2021	16:07	Kestrel	1	5	5	0	0	0	cutover bog; hovering - dropped down	KB
K311	VP15	22/06/2021	16:09	Kestrel	1	660	5	15	640	0	cutover bog and scrub; foraging and hovering	KB
K312	VP15	22/06/2021	17:39	Kestrel	1	420	5	15	400	0	cutover bog; foraging and hovering	KB
K313	VP5	23/06/2021	16:19	Kestrel	1	30	0	30	0	0	cutover bog; hunting/hovering, onsite, not mapped	SI
K314	VP6	24/06/2021	15:27	Kestrel	1	32	0	0	27	0	cutover bog and scrub; flying, passing through	SI
K315	VP15	13/07/2021	10:07	Kestrel	1	300	0	0	300	0	cutover bog; hunting, female	AR
K316	VP15	13/07/2021	11:29	Kestrel	1	120	60	60	0	0	cutover bog; hunting, male	AR
K317	VP15	13/07/2021	12:46	Kestrel	1	180	0	180	0	0	cutover bog and scrub; hunting, female	AR
K318	VP15	13/07/2021	14:05	Kestrel	1	120	0	120	0	0	cutover bog; hunting, female	AR
K319	VP15	13/07/2021	14:31	Kestrel	1	60	0	60	0	0	cutover bog; hunting, male	AR
K320	VP15	13/07/2021	14:59	Kestrel	1	60	0	60	0	0	cutover bog and scrub; hunting, female	AR
K321	VP15	13/07/2021	21:11	Kestrel	1	90	0	90	0	0	cutover bog; hunting, female	AR
K322	VP15	13/07/2021	21:28	Kestrel	1	300	0	100	200	0	cutover bog and highly modified/non-native woodland; hunting, male	AR

Vantage Point Surveys												
Map 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
K323	VP14	14/07/2021	13:30	Kestrel	1	180	0	0	180	0	bogs and highly modified/non-native woodland; hunting	AR
K324	VP14	14/07/2021	15:52	Kestrel	1	120	0	0	120	0	bogs and highly modified/non-native woodland; hunting	AR
K325	VP14	14/07/2021	16:38	Kestrel	1	60	0	0	60	0	cutover bog; hunting	AR
K326	VP16	14/07/2021	20:23	Kestrel	1	120	0	0	120	0	cutover bog and highly modified/non-native woodland; hunting, male	AR
K328	VP16	15/07/2021	10:10	Kestrel	1	120	0	0	120	0	highly modified/non-native woodland; hunting, female	AR
K329	VP16	15/07/2021	10:37	Kestrel	1	60	0	60	0	0	bogs; hunting, male	AR
K330	VP16	15/07/2021	11:34	Kestrel	1	120	0	0	120	0	bogs and scrub; hunting, male	AR
K331	VP16	15/07/2021	11:40	Kestrel	1	60	0	60	0	0	cutover bog; hunting, female	AR
K332	VP16	15/07/2021	12:27	Kestrel	1	300	0	200	100	0	cutover bog; hunting/soaring, mobbed by swallows	AR
K333	VP16	15/07/2021	13:06	Kestrel	1	40	40	0	0	0	bogs; hunting, male	AR
K327	VP8	15/07/2021	16:41	Kestrel	1	10	0	10	0	0	bogs; hunting	AR
K334	VP5	15/07/2021	12:40	Kestrel	1	100	0	20	80	0	cutover bog; hunting, descended into a small pocket of trees., male bird	CR
K335	VP10	30/07/2021	13:57	Kestrel	1	260	0	0	260	0	scrub, mixed broadleaved woodland and cutover bog; flying and hunting over woodland and scrub, circling and hovering for c. 4 mins.	SJ
K336	VP10	30/07/2021	15:02	Kestrel	1	5	5	0	0	0	mixed broadleaved woodland and cutover bog; flying, momentarily flew out of woodland to the south of VP	SJ
K337	VP13	31/07/2021	17:50	Kestrel	1	30	0	30	0	0	cutover bog and scrub; hunting, hunting over scrub and bog	SJ
K338	VP13	04/08/2021	10:01	Kestrel	1	642	42	350	250	0	cutover bog and mixed broadleaved woodland; hunting	DW
K339	VP13	04/08/2021	11:45	Kestrel	1	125	25	100	0	0	cutover bog; hunting, behind viewshed	DW

Vantage Point Surveys												
Map 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
K340	VP13	04/08/2021	13:01	Kestrel	1	27	7	20	0	0	cutover bog and hedgerows; travelling	DW
K341	VP13	04/08/2021	15:45	Kestrel	1	206	56	100	50	0	cutover bog and semi-natural grassland; hunting	DW
K342	VP3	09/08/2021	16:07	Kestrel	1	65	0	65	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, hunting over the bog, also heard calling.	CR
K343	VP11	13/08/2021	11:45	Kestrel	1	15	15	0	0	0	cutover bog and raised bog; foraging, juvenile	KB
K344	VP11	13/08/2021	12:07	Kestrel	1	30	30	0	0	0	raised bog, cutover bog and immature woodland; foraging, juvenile	KB
K345	VP11	13/08/2021	13:52	Kestrel	1	20	20	0	0	0	cutover bog and raised bog; foraging, juvenile	KB
K346	VP15	18/08/2021	11:09	Kestrel	1	104	0	0	104	0	cutover bog and improved agricultural grassland; travelling and gliding, being mobbed by SL	DW
K347	VP15	18/08/2021	12:07	Kestrel	1	101	0	21	80	0	cutover bog; hunting	DW
K348	VP15	18/08/2021	12:52	Kestrel	1	94	4	30	60	0	upland blanket bog; hunting, dove to ground	DW
K349	VP15	18/08/2021	14:06	Kestrel	1	81	11	30	40	0	cutover bog; hunting, dropped to ground	DW
K350	VP15	18/08/2021	15:21	Kestrel	1	77	0	0	77	0	cutover bog; travelling	DW
K351	VP15	18/08/2021	15:24	Kestrel	1	93	0	0	93	0	cutover bog; hunting	DW
K352	VP15	18/08/2021	15:34	Kestrel	1	206	0	76	130	0	cutover bog; hunting	DW
K353	VP15	18/08/2021	16:16	Kestrel	1	112	2	5	105	0	cutover bog; hunting, female. dove to ground.	DW
K354	VP15	18/08/2021	16:55	Kestrel	1	32	10	22	0	0	cutover bog; hunting	DW
K355	VP14	19/08/2021	12:16	Kestrel	1	845	0	245	600	0	cutover bog and scrub; hunting and travelling	DW

Vantage Point Surveys												
Map 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
K356	VP14	19/08/2021	14:43	Kestrel	1	10	10	0	0	0	treelines and cutover bog; flushed by second juv. k., juvenile	DW
K357	VP14	19/08/2021	14:45	Kestrel	1	10	10	0	0	0	treelines and cutover bog; flying to perch on conifer, flushing second juv. k. from perch	DW
K358	VP1	25/08/2021	15:15	Kestrel	1	76	20	56	0	0	cutover bog and bog woodland; flying, calling., male observed leaving the woodland to the right of VP1 and headed south.	CR
K359	VP1	25/08/2021	16:17	Kestrel	1	19	19	0	0	0	bog woodland and cutover bog; flying, calling, male observed leaving the woodland briefly before heading back. heard calling.	CR
K360	VP1	25/08/2021	17:23	Kestrel	1	102	15	87	0	0	cutover bog and bog woodland; flying, calling, male observed leaving the woodland and headed east. seen flying into woodland to the east of the royal model flying club. heard calling.	CR
K361	VP16	26/08/2021	10:55	Kestrel	1	72	32	40	0	0	upland blanket bog and scrub; hunting	DW
K362	VP16	26/08/2021	12:26	Kestrel	1	32	32	0	0	0	upland blanket bog; travelling to perch in conifer	DW
K363	VP9	30/08/2021	16:54	Kestrel	1	300	240	60	0	0	cutover bog and scrub; foraging	KB
K364	VP14	01/09/2021	15:25	Kestrel	1	62	62	0	0	0	cutover bog; flew from perch in conifer, calling, being mobbed by SL	DW
K365	VP14	01/09/2021	16:14	Kestrel	1	113	33	60	20	0	upland blanket bog; hunting	DW
K366	VP14	01/09/2021	17:41	Kestrel	1	125	15	80	30	0	upland blanket bog; hunting, adult female	DW
K367	VP14	01/09/2021	18:22	Kestrel	1	38	8	30	0	0	upland blanket bog; hunting	DW
K372	VP2	02/09/2021	14:47	Kestrel	1	18	18	5	0	0	cutover bog and bog woodland; flying, landed on telegraph pole beside road.	CR

Vantage Point Surveys												
Map 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
											not possible to determined male or female due to poor light and distance.	
K373	VP2	02/09/2021	14:52	Kestrel	1	16	16	0	0	0	cutover bog; flying, flew into the woodland to the south.	CR
K368	VP15	02/09/2021	16:04	Kestrel	1	46	16	30	0	0	upland blanket bog; hunting	DW
K369	VP15	02/09/2021	16:51	Kestrel	1	30	10	20	0	0	cutover bog; hunting	DW
K370	VP15	02/09/2021	17:24	Kestrel	1	323	123	150	50	0	upland blanket bog; hunting, dove to ground	DW
K371	VP15	02/09/2021	18:21	Kestrel	1	25	25	0	0	0	cutover bog; travelling	DW
K374	VP1	06/09/2021	16:54	Kestrel	1	78	58	20	0	0	cutover bog and bog woodland; flying, same make kestrel that was observed perched on top of conifer from 16.35 to 16:54. flew into woodland to the northeast of VP.	CR
K375	VP3	08/09/2021	15:54	Kestrel	1	360	4	127	229	0	cutover bog; flying, hunting, female kestrel observed. last seen descending beyond a line of trees to the south of VP3.	CR
K376	VP4	13/09/2021	19:48	Kestrel	1	15	15	0	0	0	cutover bog; flying, male bird flying low over the bog.	CR
K377	VP13	16/09/2021	15:05	Kestrel	1	136	0	56	80	0	upland blanket bog; hunting	DW
K378	VP13	16/09/2021	16:03	Kestrel	1	232	0	100	132	0	improved agricultural grassland and bogs; hunting, being mobbed by SL	DW
K379	VP13	16/09/2021	16:40	Kestrel	1	575	25	150	400	0	improved agricultural grassland, cutover bog and conifer plantation; hunting	DW
K380	VP13	16/09/2021	17:01	Kestrel	1	62	12	30	20	0	bogs; hunting, dove to ground then travelled low	DW
K381	VP6	16/09/2021	18:19	Kestrel	1	22	0	22	0	0	cutover bog; hunting, male observed hunting near VP before heading north.	CR

Vantage Point Surveys												
Map 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
K382	VP8	21/09/2021	15:51	Kestrel	1	89	4	85	0	0	bog woodland and cutover bog; hunting, male observed hunting. last seen heading southeast.	CR
K383	VP8	21/09/2021	16:22	Kestrel	1	75	3	72	0	0	cutover bog and bog woodland; hunting, difficult to determine if male or female due to distance and poor light. last seen heading east.	CR
K384	VP16	25/09/2021	15:05	Kestrel	1	35	35	0	0	0	bogs; flying low over bog from perch	DW
K385	VP16	25/09/2021	17:24	Kestrel	1	33	33	0	0	0	bogs; flying from perch, other k. heard calling	DW
K386	VP9	28/09/2021	14:07	Kestrel	1	94	94	0	0	0	bog woodland and cutover bog; hunting, hovering over trees, dropped down	KS
K387	VP9	28/09/2021	14:28	Kestrel	1	148	148	0	0	0	bog woodland and cutover bog; hunting, female, moving south then dropped	KS
K388	VP9	28/09/2021	14:40	Kestrel	1	46	6	40	0	0	bog woodland; hunting, dropped down	KS
K389	VP9	28/09/2021	18:55	Kestrel	1	13	13	0	0	0	bog woodland; travelling, perched in tree for several minutes before dropping north	KS
K396	VP5	12/10/2021	13:05	Kestrel	1	20	0	15	0	0	bogs; hovering/travelling	JM
K397	VP3	13/10/2021	10:47	Kestrel	1	30	0	0	30	0	bogs; travelling	JM
K398	VP3	13/10/2021	10:47	Kestrel	1	55	5	10	40	0	bogs and conifer plantation; travelling, travelling near another k then moved away and hovered before landing in a tree	JM
K399	VP3	13/10/2021	11:28	Kestrel	1	29	29	0	0	0	bogs and conifer plantation	JM
K400	VP4	14/10/2021	08:29	Kestrel	1	70	0	70	0	0	bogs; travelling/hovering	JM
K401	VP4	14/10/2021	12:55	Kestrel	1	70	0	0	70	0	bogs, scrub and bog woodland; travelling	JM

Vantage Point Surveys												
Map 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
K402	VP14	14/10/2021	13:10	Kestrel	1	89	20	69	0	0	cutover bog, dry siliceous heath and treelines; hunting, female hovering and dipping	KS
K403	VP15	15/10/2021	08:32	Kestrel	1	22	22	0	0	0	cutover bog; travelling	KS
K404	VP16	19/10/2021	10:47	Kestrel	1	56	56	0	0	0	improved agricultural grassland and conifer plantation; hunting	KS
K405	VP8	21/10/2021	11:58	Kestrel	1	370	0	0	370	0	bogs; travelling, hunting, hovering	JM
K406	VP8	21/10/2021	12:39	Kestrel	1	42	0	42	0	0	mixed broadleaved/conifer woodland; travelling, hovering/hunting	JM
K407	VP9	26/10/2021	12:07	Kestrel	1	130	0	30	100	0	bogs and bog woodland; travelling/hovering	JM
K408	VP11	29/10/2021	13:15	Kestrel	1	55	0	0	55	0	bogs and bog woodland; travelling	JM
K409	VP2	02/11/2021	12:24	Kestrel	1	45	0	5	5	0	bogs and bog woodland; travelling	JM
K410	VP2	02/11/2021	16:40	Kestrel	1	170	0	70	70	0	bogs and bog woodland; travelling/hovering	JM
K411	VP6	04/11/2021	13:46	Kestrel	1	40	0	40	40	0	bogs and bog woodland; travelling/hovering	JM
K412	VP6	04/11/2021	15:45	Kestrel	1	102	2	100	102	0	bogs and mixed conifer woodland; travelling/hovering	JM
K413	VP3	08/11/2021	16:52	Kestrel	1	170	0	70	70	0	bogs and bog woodland; travelling/hovering	JM
K414	VP8	09/11/2021	10:23	Kestrel	1	40	0	10	10	0	cutover bog and scrub; foraging	KB
K415	VP4	10/11/2021	13:24	Kestrel	1	70	0	70	70	0	bogs; travelling/hovering	JM
K416	VP4	10/11/2021	13:36	Kestrel	1	188	0	8	8	0	bogs and bog woodland; travelling/hovering	JM
K417	VP4	10/11/2021	13:45	Kestrel	1	142	10	132	142	0	bogs and bog woodland; travelling/hovering	JM
K418	VP7	19/11/2021	12:07	Kestrel	1	120	20	100	120	0	cutover bog; foraging	KB
K419	VP7	19/11/2021	12:34	Kestrel	1	20	5	15	20	0	cutover bog and scrub; foraging, dropped down	KB

Vantage Point Surveys												
Map 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
K420	VP7	19/11/2021	12:55	Kestrel	1	30	5	15	20	0	cutover bog and scrub; foraging	KB
K421	VP7	19/11/2021	12:58	Kestrel	1	6	6	0	6	0	cutover bog and scrub; foraging - landed to perch	KB
K422	VP11	21/11/2021	16:40	Kestrel	1	80	0	40	40	0	improved agricultural grassland, cutover bog and scrub;	TS
K423	VP9	25/11/2021	11:34	Kestrel	1	60	0	10	10	30	cutover bog and scrub; foraging	KB
K424	VP9	25/11/2021	12:10	Kestrel	1	600	20	180	200	0	cutover bog and scrub; foraging	KB
K425	VP2	01/12/2021	13:03	Kestrel	1	27	3	24	27	0	bogs and mixed broadleaved/conifer woodland; travelling	
K426	VP2	01/12/2021	13:20	Kestrel	1	47	0	0	0	0	bogs and mixed broadleaved/conifer woodland; travelling	JM
K427	VP3	02/12/2021	10:14	Kestrel	1	102	2	40	42	0	mixed broadleaved/conifer woodland and bogs; travelling, getting harassed by a raven	JM
K428	VP6	11/12/2021	09:33	Kestrel	1	70	10	50	60	0	raised bog, cutover bog and scrub; flying, hunting	TS
K429	VP6	11/12/2021	12:48	Kestrel	1	55	45	10	55	0	cutover bog; flying	TS
K430	VP13	14/12/2021	12:05	Kestrel	1	90	90	0	90	0	cutover bog; hunting	KS
K431	VP13	14/12/2021	12:17	Kestrel	1	60	60	0	60	0	cutover bog and mixed broadleaved/conifer woodland; mobbed, mobbed by pe, flew into trees	KS
K432	VP13	14/12/2021	13:30	Kestrel	1	76	30	46	76	0	cutover bog and mixed broadleaved/conifer woodland; hunting	KS
K433	VP14	15/12/2021	08:43	Kestrel	1	1020	1020	0	1020	0	cutover bog and dry siliceous heath; hunting, dropped into heather once unsuccessfully, rose again	KS
K434	VP14	15/12/2021	11:32	Kestrel	1	30	30	0	30	0	cutover bog and bog woodland; hunting	KS

Vantage Point Surveys												
Map 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
K435	VP11	21/12/2021	09:11	Kestrel	1	10	10	0	10	0	mixed broadleaved/conifer woodland and cutover bog; perched, perched in tree, flew low e	KS
K436	VP11	21/12/2021	12:29	Kestrel	1	90	80	10	90	0	cutover bog; hunting, dropped to ground	KS
K437	VP11	21/12/2021	13:06	Kestrel	1	480	280	200	480	0	mixed broadleaved/conifer woodland and cutover bog; hunting, perched in trees briefly before continuing	KS
K438	VP12	05/01/2022	11:26	Kestrel	1	45	45	0	45	0	mixed broadleaved/conifer woodland; hunting, hover, dropped	KS
K439	VP4	10/01/2022	11:33	Kestrel	1	54	54	0	54	0	bogs and scrub; travelling	JM
K440	VP11	20/01/2022	14:59	Kestrel	1	10	10	0	10	0	conifer plantation, immature woodland and raised bog; foraging, adult female	KB
K441	VP11	20/01/2022	15:01	Kestrel	1	6	6	0	6	0	scrub and raised bog; foraging, adult female	KB
K442	VP15	25/01/2022	16:16	Kestrel	1	25	25	0	25	0	cutover bog and bog woodland; hunting, hovering	KS
K443	VP8	27/01/2022	12:51	Kestrel	1	15	15	0	15	0	raised bog; travelling	NM
K444	VP8	27/01/2022	15:05	Kestrel	1	10	5	5	10	0	raised bog; travelling	NM
K445	VP4	02/02/2022	09:58	Kestrel	1	40	15	25	40	0	cutover bog; hunting	NM
K446	VP4	02/02/2022	11:24	Kestrel	1	194	20	174	194	0	cutover bog; hunting	NM
K447	VP4	02/02/2022	12:21	Kestrel	1	10	2	8	10	0	cutover bog; hunting, presumed as same kestrel recorded earlier	NM
K448	VP14	04/02/2022	09:13	Kestrel	2	45	45	0	45	0	cutover bog and bog woodland; travelling, about 10m apart	KS
K449	VP8	10/02/2022	12:31	Kestrel	1	140	2	8	10	0	cutover bog and bog woodland; hunting	NM
K450	VP9	11/02/2022	12:43	Kestrel	1	562	2	5	7	0	cutover bog and conifer plantation; hunting	NM

Vantage Point Surveys												
Map 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
K451	VP9	11/02/2022	12:57	Kestrel	1	235	0	0	0	0	conifer plantation and cutover bog; mobbing/hunting, kestrel left perch to attack travelling sparrowhawk	NM
K452	VP15	14/02/2022	11:02	Kestrel	1	390	300	90	390	0	cutover bog; hunting	KS
K453	VP15	14/02/2022	11:45	Kestrel	1	45	45	0	45	0	cutover bog; hunting	KS
K454	VP12	15/02/2022	11:55	Kestrel	1	45	10	30	40	0	cutover bog; hunting, male	eh
K455	VP16	15/02/2022	15:27	Kestrel	1	190	190	0	190	0	mixed broadleaved/conifer woodland; hunting	KS
K456	VP12	13/03/2022	15:46	Kestrel	1	480	360	80	440	0	cutover bog and immature woodland; foraging, adult female	KB
K457	VP12	13/03/2022	16:35	Kestrel	1	240	120	60	180	0	cutover bog; foraging, adult female	KB
K458	VP12	13/03/2022	18:22	Kestrel	1	120	120	0	120	0	cutover bog; foraging	KB
K459	VP12	13/03/2022	18:30	Kestrel	1	100	60	40	100	0	cutover bog; foraging	KB
K460	VP13	14/03/2022	13:56	Kestrel	1	250	0	230	230	0	cutover bog; flying hunting	TS
K461	VP13	14/03/2022	14:48	Kestrel	1	200	0	10	10	0	cutover bog; hunting	TS
K462	VP13	14/03/2022	15:42	Kestrel	1	460	0	200	200	0	cutover bog, scrub and treelines; hunting flying	TS
K463	VP14	15/03/2022	13:35	Kestrel	1	30	20	10	30	0	cutover bog and scrub; flying	TS
K464	VP14	15/03/2022	14:17	Kestrel	1	180	10	70	80	0	cutover bog; hunting flying	TS
K465	VP14	15/03/2022	16:32	Kestrel	1	340	10	200	210	0	cutover bog; hunting flying	TS
K466	VP6	23/03/2022	13:44	Kestrel	1	40	0	6	6	0	cutover bog and bog woodland; travelling/hovering	NM
K467	VP6	23/03/2022	14:44	Kestrel	1	44	1	40	41	0	cutover bog; hovering	NM
K468	VP6	23/03/2022	14:49	Kestrel	1	32	2	12	14	0	cutover bog; hovering/hunting	NM
K469	VP8	25/03/2022	14:17	Kestrel	1	50	0	3	3	0	cutover bog; mobbed off perch by hooded crow	NM
K470	VP8	25/03/2022	17:16	Kestrel	1	62	0	4	4	0	cutover bog; travelling	NM

Vantage Point Surveys												
Map 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
K471	VP15	29/03/2022	16:33	Kestrel	1	60	60	0	60	0	cutover bog; hunting, flushed from perch in tree	KS
K472	VP15	29/03/2022	16:41	Kestrel	1	150	120	30	150	0	cutover bog; hunting, female	KS
K473	VP9	07/04/2022	08:24	Kestrel	1	28	14	14	28	0	bogs and conifer plantation; travelling	JM
K474	VP11	08/04/2022	10:15	Kestrel	1	172	2	170	172	0	bogs and mixed broadleaved/conifer woodland; hovering/flying	JM
K475	VP14	11/04/2022	10:41	Kestrel	1	12	12	0	12	0	bogs and scrub; travelling	JM
K476	VP16	23/04/2022	09:37	Kestrel	1	65	10	55	65	0	cutover bog and mixed broadleaved/conifer woodland; hunting, descended to bog	DM
K477	VP15	10/05/2022	16:50	Kestrel	1	35	35	0	35	0	cutover bog; hunting	KS
K478	VP2	11/05/2022	21:03	Kestrel	1	142	2	2	4	0	conifer plantation and cutover bog; hunting	NM
K479	VP2	11/05/2022	21:31	Kestrel	1	86	2	4	6	0	cutover bog; hunting	NM
K480	VP3	20/05/2022	19:54	Kestrel	1	32	4	25	29	0	conifer plantation, scrub and cutover bog; hunting	NM
K481	VP3	20/05/2022	20:00	Kestrel	1	152	2	8	10	0	conifer plantation, scrub and cutover bog; hunting/travelling	NM
K482	VP3	20/05/2022	20:36	Kestrel	1	120	0	35	35	0	conifer plantation, cutover bog and scrub; hunting	NM
K483	VP3	20/05/2022	20:40	Kestrel	1	72	2	10	12	0	conifer plantation, scrub and cutover bog; hunting	NM
K484	VP3	20/05/2022	20:44	Kestrel	1	134	2	32	34	0	conifer plantation; hunting	NM
K485	VP3	20/05/2022	20:47	Kestrel	1	110	0	106	106	0	cutover bog; hunting	NM
K486	VP3	20/05/2022	20:56	Kestrel	1	283	3	30	33	0	conifer plantation and cutover bog; hunting	NM
K487	VP3	20/05/2022	21:07	Kestrel	1	60	2	35	37	0	cutover bog; hunting	NM
K488	VP3	20/05/2022	21:19	Kestrel	1	220	20	30	50	0	cutover bog and scrub; hunting	NM
K489	VP3	20/05/2022	21:27	Kestrel	1	193	0	17	17	0	cutover bog; hunting	NM

Vantage Point Surveys												
Map 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
K490	VP7	30/05/2022	17:03	Kestrel	1	20	20	0	20	0	cutover bog and mixed broadleaved/conifer woodland; hunting	KS
K491	VP12	09/06/2022	19:20	Kestrel	1	90	5	25	30	0	cutover bog and scrub; hunting/hovering, lost among birch scrub	EF
K492	VP13	13/06/2022	19:15	Kestrel	1	19	19	0	19	0	cutover bog and scrub; commuting, flying low and straight	EF
K493	VP4	13/06/2022	19:56	Kestrel	1	65	0	0	0	0	cutover bog; hunting	NM
K494	VP14	16/06/2022	18:55	Kestrel	1	65	0	65	65	0	cutover bog and scrub; hovering/flying	EF
K495	VP15	26/06/2022	16:15	Kestrel	1	24	0	24	24	0	cutover bog and scrub; direct flight, looked like it was carrying something	EF
K496	VP15	26/06/2022	17:50	Kestrel	1	58	10	48	58	0	cutover bog and scrub; flying, low across bare peat rising to hover at birch scrub. lost behind birch.	EF
K497	VP8	07/07/2022	15:01	Kestrel	1	201	10	6	16	0	cutover bog; travelling/hunting	NM
K498	VP10	08/07/2022	14:29	Kestrel	1	36	0	0	0	0	bogs; travelling	NM
K499	VP6	12/07/2022	15:34	Kestrel	1	240	5	5	10	0	bogs and conifer plantation; hunting/travelling	NM
K500	VP16	19/07/2022	11:01	Kestrel	1	60	60	0	60	0	cutover bog; hunting	KS
K501	VP16	19/07/2022	13:39	Kestrel	1	80	0	80	80	0	cutover bog; hunting	KS
K502	VP5	25/07/2022	10:05	Kestrel	1	340	20	320	340	0	cutover bog and scrub; hunting/hovering, lost behind trees	EF
K503	VP3	26/07/2022	13:40	Kestrel	1	56	56	0	56	0	cutover bog and scrub; hunting/hovering, lost in scrub/trees	EF
K504	VP4	27/07/2022	16:05	Kestrel	1	5	0	5	5	0	cutover bog and scrub; flying, flew off mast with sh. same bird as id 3. lost in scrub followed by sh.	EF
K505	VP1	28/07/2022	09:15	Kestrel	1	8	8	0	8	0	cutover bog and scrub; hovering/hunting, dropped down	EF

Vantage Point Surveys												
Map 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
K506	VP1	28/07/2022	09:20	Kestrel	1	15	0	15	15	0	cutover bog and scrub; hovering/hunting, lost behind trees	EF
K507	VP1	28/07/2022	10:05	Kestrel	1	30	0	2	2	0	cutover bog and scrub; hovering/hunting, dropped below tree line	EF
K508	VP1	28/07/2022	13:10	Kestrel	1	25	0	25	25	0	cutover bog and scrub; flying, carrying food	EF
K509	VP15	28/07/2022	17:20	Kestrel	1	45	45	0	45	0	cutover bog; hunting, female, dropped	KS
K510	VP2	29/07/2022	08:50	Kestrel	1	77	77	0	77	0	cutover bog and scrub; flying/hovering, lost in scrub	EF
K511	VP2	29/07/2022	12:40	Kestrel	1	360	0	160	160	0	cutover bog and scrub; hunting/hovering, dropped into scrub/trees	EF
K512	VP1	05/08/2022	09:41	Kestrel	1	30	30	0	30	0	cutover bog and mixed broadleaved/conifer woodland; travelling, perched, flew from perch in tree out of sight	KS
K513	VP1	05/08/2022	13:38	Kestrel	1	30	30	0	30	0	cutover bog, heath and mixed broadleaved/conifer woodland; hunting, dropped down, flew to perch in tree then travelled	KS
K514	VP7	23/08/2022	19:07	Kestrel	1	36	12	24	36	0	cutover bog; travelling	NM
K515	VP3	24/08/2022	14:50	Kestrel	1	90	50	40	90	0	cutover bog and mixed broadleaved/conifer woodland; hunting	KS
K516	VP7	25/08/2022	12:15	Kestrel	1	16	0	0	0	0	heath and scrub; hovering, hovered briefly, dropped below scrub line	EF
K517	VP14	25/08/2022	10:21	Kestrel	1	40	40	0	40	0	cutover bog; hunting, male	KS
K518	VP14	25/08/2022	10:33	Kestrel	1	60	60	0	60	0	cutover bog; hunting, male, flew to perch in tree, calling	KS
K519	VP14	25/08/2022	13:14	Kestrel	1	150	20	40	60	0	cutover bog; hunting, female	KS

Vantage Point Surveys												
Map 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
K520	VP14	25/08/2022	14:35	Kestrel	1	20	20	0	20	0	cutover bog and treelines; perched, flew from tree, female	KS
K521	VP10	26/08/2022	13:30	Kestrel	1	20	20	0	20	0	cutover bog and scrub; flying, flew in low and landed briefly on bare turf. then flew low behind bank. juvenile/female	EF
K522	VP13	28/08/2022	10:35	Kestrel	1	92	0	0	0	0	cutover bog and scrub; hunting/hovering, lost behind trees	EF
K523	VP13	28/08/2022	11:05	Kestrel	1	37	37	0	37	0	cutover bog and scrub; flying, flew low across bog. landed briefly on birch then flew again. lost into scrub. juvenile/female	EF
K524	VP15	28/08/2022	13:25	Kestrel	1	27	0	27	27	0	cutover bog and scrub; direct flight, lost in scrub/trees	EF
K525	VP15	28/08/2022	14:05	Kestrel	1	51	0	51	51	0	cutover bog and scrub; hunting/hovering, went below scrub/treeline	EF
K526	VP15	28/08/2022	14:50	Kestrel	1	175	40	135	175	0	cutover bog and scrub; hunting/hovering, dropped to ground 3 times. flew from ground to scrub	EF
K527	VP15	28/08/2022	15:15	Kestrel	1	116	0	116	116	0	cutover bog and scrub; hunting/hovering, lost behind scrub/treeline	EF
K528	VP12	29/08/2022	13:35	Kestrel	1	11	11	0	11	0	cutover bog and scrub; direct flight low, lost behind	EF
K529	VP16	30/08/2022	10:45	Kestrel	1	21	0	21	21	0	heath and scrub; flying/hovering, lost behind trees	EF
K530	VP16	30/08/2022	11:40	Kestrel	1	88	60	20	80	0	heath and scrub; hunting/hovering. landed briefly, lost in scrub	EF
K531	VP16	30/08/2022	12:15	Kestrel	1	12	12	0	12	0	heath and scrub; hovering, dropped out of view	EF

Vantage Point Surveys												
Map 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
K532	VP14	30/08/2022	15:40	Kestrel	1	74	0	74	74	0	cutover bog and scrub; direct flight and hovering, lost behind trees	EF
K533	VP14	30/08/2022	16:45	Kestrel	1	102	0	102	102	0	cutover bog and scrub; hunting/hovering, dropped below trees	EF
K534	VP14	30/08/2022	17:00	Kestrel	1	3	0	3	3	0	cutover bog and scrub; seen briefly. went below trees.	EF
K535	VP13	30/08/2022	08:47	Kestrel	1	30	30	0	30	0	cutover bog; hunting	KS
K536	VP15	30/08/2022	10:36	Kestrel	1	200	0	50	50	0	cutover bog; hunting, mobbed by martins	KS
K537	VP15	30/08/2022	14:36	Kestrel	1	35	35	0	35	0	cutover bog; hunting, male	KS
K538	VP16	02/09/2022	08:51	Kestrel	1	20	20	0	20	0	cutover bog; flushed, juv.	KS
K539	VP16	02/09/2022	14:24	Kestrel	1	10	10	0	10	0	mixed broadleaved/conifer woodland and cutover bog; perched, dropped	KS
K540	VP14	07/09/2022	14:43	Kestrel	1	35	35	0	35	0	cutover bog and mixed broadleaved/conifer woodland; hunting, female	KS
K541	VP14	07/09/2022	15:55	Kestrel	1	40	40	0	40	0	cutover bog and mixed broadleaved/conifer woodland; hunting, dropped	KS
K542	VP14	07/09/2022	16:12	Kestrel	1	30	30	0	30	0	cutover bog; hunting	KS
K543	VP14	07/09/2022	16:31	Kestrel	1	35	35	0	35	0	cutover bog and mixed broadleaved/conifer woodland; hunting	KS
K544	VP14	07/09/2022	16:39	Kestrel	1	25	25	0	25	0	cutover bog and mixed broadleaved/conifer woodland; hunting, gliding	KS
K545	VP14	07/09/2022	18:26	Kestrel	1	15	15	0	15	0	cutover bog and mixed broadleaved/conifer woodland; flew to perch	KS

Vantage Point Surveys												
Map 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
K546	VP11	13/09/2022	14:26	Kestrel	1	45	45	0	45	0	cutover bog and mixed broadleaved/conifer woodland; hunting	KS
K547	VP12	13/09/2022	15:34	Kestrel	1	480	0	100	100	0	cutover bog; soaring, mobbed	KS
K548	VP12	13/09/2022	15:41	Kestrel	1	100	10	30	40	0	cutover bog; soaring, hunting	KS
K549	VP12	13/09/2022	15:44	Kestrel	1	35	5	25	30	0	cutover bog; hunting	KS
K550	VP12	13/09/2022	16:41	Kestrel	1	480	72	300	372	0	cutover bog and mixed broadleaved woodland; flying, soaring, surveying	KS
K551	VP12	13/09/2022	17:09	Kestrel	1	30	0	30	30	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
K552	VP14	15/09/2022	09:02	Kestrel	1	20	10	10	20	0	cutover bog and mixed broadleaved/conifer woodland; mobbed, landed	KS
K553	VP15	20/09/2022	12:16	Kestrel	1	20	20	0	20	0	cutover bog; hunting, dropped, male	KS
K554	VP1	21/09/2022	10:42	Kestrel	1	25	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling/hunting	KS
K555	VP6	21/09/2022	16:56	Kestrel	1	132	12	100	112	0	cutover bog and conifer plantation; hunting/travelling	NM
K556	VP6	21/09/2022	17:56	Kestrel	1	240	0	26	26	0	cutover bog; hunting/travelling	NM
K557	VP15	22/09/2022	19:05	Kestrel	1	20	20	0	20	0	cutover bog; mobbing raven	KS
K558	VP16	23/09/2022	16:17	Kestrel	1	360	360	0	360	0	cutover bog and mixed broadleaved/conifer woodland; hunting/perching, immature	KS
K559	VP16	23/09/2022	16:34	Kestrel	1	30	30	0	30	0	cutover bog and mixed broadleaved/conifer woodland; travel/hunting	KS
K560	VP2	25/09/2022	15:59	Kestrel	1	15	6	9	15	0	conifer plantation and bogs; travelling	NM
K561	VP2	25/09/2022	16:35	Kestrel	1	38	0	38	38	0	conifer plantation and bogs; hunting	NM

Vantage Point Surveys												
Map 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
K562	VP2	27/09/2022	09:15	Kestrel	1	31	31	0	31	0	cutover bog and scrub; hunting/hovering, went behind across road	EF
K563	VP4	28/09/2022	10:50	Kestrel	1	42	0	0	0	0	cutover bog and scrub; flying/circling/hovering, lost behind trees. probably id3 (non-flights)	EF
K564	VP3	28/09/2022	13:40	Kestrel	1	52	0	0	0	0	cutover bog and scrub; flying/hovering/landed, landed on phone mast	EF
K565	VP3	28/09/2022	13:45	Kestrel	1	4	0	4	4	0	cutover bog and scrub; flew below treeline, lost below treeline	EF
K566	VP3	28/09/2022	14:20	Kestrel	1	49	0	0	0	0	cutover bog and scrub; flying along treeline, lost behind scrub/treeline	EF
K567	VP3	28/09/2022	14:30	Kestrel	1	14	0	0	0	0	cutover bog and scrub; hovering, dropped below treeline	EF
K568	VP3	28/09/2022	15:05	Kestrel	1	11	0	11	11	0	cutover bog and scrub; flying low, flying low	EF
K569	VP3	28/09/2022	15:30	Kestrel	1	51	51	0	51	0	cutover bog and scrub; hovering/hunting, dropped into scrub	EF
K570	VP7	28/09/2022	18:48	Kestrel	1	182	0	34	34	0	conifer plantation, improved agricultural grassland and cutover bog; hunting/mobbed, mobbed by swallows	NM
K571	VP7	28/09/2022	19:14	Kestrel	1	18	2	16	18	0	conifer plantation, improved agricultural grassland and scrub; travelling	NM
K572	VP5	29/09/2022	10:40	Kestrel	1	90	0	0	0	0	cutover bog and scrub; flying/hovering, lost behind trees	EF
K573	VP5	29/09/2022	11:40	Kestrel	1	71	0	0	0	0	cutover bog and scrub; flying/hovering, went below treeline	EF
K574	VP5	29/09/2022	14:35	Kestrel	1	49	1	8	9	0	heath and scrub; hovering, dropped below tree/scrub line	EF

Vantage Point Surveys												
Map 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
K575	VP5	29/09/2022	15:10	Kestrel	1	28	0	28	28	0	heath and scrub; hovering then flew low, lost behind tree/scrub line	EF
K576	VP5	29/09/2022	15:50	Kestrel	1	75	0	0	0	0	heath and scrub; hovering, dropped below tree/scrub line	EF
K577	VP4	04/10/2022	10:29	Kestrel	1	35	35	0	35	0	cutover bog; hunting, dropped	KS
K578	VP4	04/10/2022	10:35	Kestrel	1	20	0	20	20	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
K579	VP4	04/10/2022	11:02	Kestrel	1	20	20	0	20	0	cutover bog; landing, flew to mast	KS
K580	VP4	04/10/2022	11:49	Kestrel	1	30	30	0	30	0	cutover bog; hunting, flew from perch	KS

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
K263	VP3	23/09/2020	08:46	Kestrel	1	conifer plantation; perched	DW
K264	VP2	25/01/2021	13:19	Kestrel	1	cutover bog; perching in conifer	DW
K265	VP2	10/02/2021	14:51	Kestrel	1	treelines; perching in conifer	DW
K266	VP4	15/02/2021	15:07	Kestrel	1	cutover bog; perched, perched on met mast	DW
K267	VP13	23/03/2021	11:05	Kestrel	1	scrub and cutover bog; perched on top of gorse within corridor of heather between bare bog and immature woodland	NM
K268	VP9	29/03/2021	12:43	Kestrel	1	wet heath and raised bog; perched in birch cluster within heath / heather scrub, unsure what this habitat is?	NM
K269	VP11	25/03/2021	11:28	Kestrel	1	scrub and cutover bog; perched in birch treeline at edge of bog	NM
K390	VP14	19/08/2021	14:43	Kestrel	1	treelines; begging calls from perch, juvenile	DW
K391	VP1	25/08/2021	14:45	Kestrel	1	bog woodland; calling, heard calling in woodland for 5 minutes.	CR

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
K392	VP1	25/08/2021	17:47	Kestrel	1	bog woodland; calling, kestrel heard calling in woodland.	CR
K393	VP1	25/08/2021	18:18	Kestrel	1	bog woodland; calling, kestrel heard calling in woodland near royal air modal site.	CR
K394	VP2	02/09/2021	14:48	Kestrel	1	cutover bog; perched, kestrel perched on telegraph pole until 14:52	CR
K395	VP1	06/09/2021	16:35	Kestrel	1	cutover bog and bog woodland; perched, male bird observed perched on top of conifer tree.	CR
K581	VP4	10/11/2021	13:58	Kestrel	1	bogs; perched on mast wires	JM
K582	VP4	27/07/2022	16:00	Kestrel	1	cutover bog and scrub; perched, perched on mast. interaction with id 4	EF
K583	VP4	28/09/2022	10:25	Kestrel	1	cutover bog and scrub; perched on bare branch/feeding, didn't see it leave. gone at 10:40	EF

Breeding Walkover							
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor	
K001	20/04/2020	12:01	Kestrel	1	bog woodland and cutover bog; flying over birch wood	PT	
K002	20/04/2020	13:08	Kestrel	1	improved agricultural grassland and woodland and scrub; circling, male	PT	
K003	20/04/2020	13:37	Kestrel	1	cutover bog; direct flight then hunting	PT	
K004	20/04/2020	13:46	Kestrel	1	improved agricultural grassland; direct flight	PT	
K005	27/04/2020	14:08	Kestrel	1	cutover bog; hovering	PT	
K006	28/04/2020	13:38	Kestrel	1	cutover bog; hunting/flying high	PT	
K007	08/05/2020	13:13	Kestrel	1	raised bog and cutover bog; hunting	PT	
K008	02/06/2020	10:49	Kestrel	1	cutover bog; hunting	PT	
K009	02/06/2020	14:37	Kestrel	1	cutover bog; hovering	PT	
K010	02/06/2020	14:42	Kestrel	1	raised bog; hovering, dropped, flew off with small prey item	PT	

Breeding Walkover						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
K011	20/06/2020	10:04	Kestrel	1	cutover bog; hunting	PT
K012	20/06/2020	11:58	Kestrel	1	cutover bog; hunting	PT
K013	20/06/2020	12:04	Kestrel	1	cutover bog; hunting	PT
K014	24/06/2020	12:36	Kestrel	1	cutover bog and improved agricultural grassland; direct flight, stopped to circle twice, possibly carrying small prey item	PT
K015	02/07/2020	12:28	Kestrel	1	bog woodland and improved agricultural grassland; perched on burnt Calluna; begging calls, possibly from a second bird	PT
K016	02/07/2020	12:29	Kestrel	1	improved agricultural grassland and treelines; hovering	PT
K017	11/07/2020	12:26	Kestrel	1	cutover bog; hunting	PT
K018	11/07/2020	13:49	Kestrel	1	lakes and ponds and cutover bog; direct flight	PT
K019	16/07/2020	11:53	Kestrel	1		PT
K020	01/04/2021	15:01	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K021	05/04/2021	13:10	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K022	05/04/2021	14:00	Kestrel	1	cutover bog, mixed broadleaved woodland and improved agricultural grassland; hunting (suitable nesting habitat; possible breeder)	DW
K023	07/04/2021	12:02	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K024	07/04/2021	14:05	Kestrel	1	cutover bog and mixed broadleaved woodland; travelling (suitable nesting habitat; possible breeder)	DW
K025	07/04/2021	14:50	Kestrel	1	cutover bog and scrub; hunting (suitable nesting habitat; possible breeder)	DW
K026	05/05/2021	10:15	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K027	05/05/2021	12:40	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K028	05/05/2021	13:50	Kestrel	1	cutover bog; hunting (pair; probable breeding)	DW
K029	05/05/2021	14:37	Kestrel	1	raised bog and conifer plantation; hunting (suitable nesting habitat; possible breeder)	DW
K030	07/05/2021	15:10	Kestrel	1	bogs and scrub; hunting (suitable nesting habitat; possible breeder)	DW

Breeding Walkover						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
K031	07/05/2021	15:25	Kestrel	1	bogs; hunting, male (suitable nesting habitat; possible breeder)	DW
K035	12/05/2021	09:15	Kestrel	1	bogs; hunting (suitable nesting habitat; possible breeder)	DW
K032	12/05/2021	11:22	Kestrel	1	bogs; hunting (suitable nesting habitat; possible breeder)	DW
K033	12/05/2021	14:07	Kestrel	1	bogs; hunting (suitable nesting habitat; possible breeder)	DW
K034	12/05/2021	14:32	Kestrel	1	bogs; hunting (suitable nesting habitat; possible breeder)	DW
K036	13/05/2021	14:49	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K037	13/05/2021	15:26	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K038	14/05/2021	14:18	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K039	18/05/2021	11:44	Kestrel	1	cutover bog; travelling low over bog (suitable nesting habitat; possible breeder)	DW
K040	18/05/2021	14:34	Kestrel	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	DW
K041	19/05/2021		Kestrel	1		TR
K042	01/06/2021	11:12	Kestrel	1	cutover bog; gliding and calling (suitable nesting habitat; possible breeder)	DW
K043	01/06/2021	13:37	Kestrel	1	conifer plantation and cutover bog; travelling and soaring, flying over conifer plantation then soaring over bog (suitable nesting habitat; possible breeder)	DW
K044	01/06/2021	14:04	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K045	01/06/2021	15:59	Kestrel	1	upland blanket bog; hunting (suitable nesting habitat; possible breeder)	DW
K046	02/06/2021	14:00	Kestrel	1	cutover bog; travelling, looked to drop to ground (suitable nesting habitat; possible breeder)	DW
K047	03/06/2021	11:32	Kestrel	1	cutover bog; hunting, dropping down into grass at margin of bog (suitable nesting habitat; possible breeder)	DW
K048	03/06/2021	13:14	Kestrel	1	cutover bog and mixed broadleaved woodland; travelling, female (suitable nesting habitat; possible breeder)	DW
K049	11/06/2021	12:04	Kestrel	1	bogs; hunting (suitable nesting habitat; possible breeder)	DW
K050	11/06/2021	16:12	Kestrel	1	upland blanket bog; hunting (suitable nesting habitat; possible breeder)	DW

Breeding Walkover						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
K051	13/06/2021	10:02	Kestrel	1	upland blanket bog; hunting (suitable nesting habitat; possible breeder)	DW
K052	13/07/2021	15:18	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K053	13/07/2021	16:18	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K054	13/07/2021	18:02	Kestrel	1	upland blanket bog; hunting (suitable nesting habitat; possible breeder)	DW
K055	13/07/2021	18:11	Kestrel	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	DW
K056	14/07/2021	17:40	Kestrel	1	improved agricultural grassland; perched and hunting from hay bale (suitable nesting habitat; possible breeder)	DW
K057	16/07/2021	11:04	Kestrel	1	upland blanket bog; hunting, being mobbed by SL (suitable nesting habitat; possible breeder)	DW
K058	29/04/2022	13:38	Kestrel	1	cutover bog; travelling/hunting (flyover; non-breeding)	NM
K059	29/06/2022	17:38	Kestrel	1	cutover bog and conifer plantation; travelling (suitable nesting habitat; possible breeder)	NM
K060	30/06/2022	12:59	Kestrel	1	improved agricultural grassland and bogs; travelling (suitable nesting habitat; possible breeder)	NM
K061	28/07/2022	17:15	Kestrel	1	bogs; hunting (suitable nesting habitat; possible breeder)	NM
K062	04/08/2022	16:34	Kestrel	1	conifer plantation and cutover bog; travelling (suitable nesting habitat; possible breeder)	NM

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
K001	RVP4	20/04/2020	10:45	Kestrel	1	lowland blanket bog, hunting, male		ED
K002	RVP4	20/04/2020	10:50	Kestrel	1	lowland blanket bog, perched, female		ED
K003	RVP3	27/04/2020	10:55	Kestrel	1	improved agricultural grassland, flying, male		ED

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
K004	RVP9	27/04/2020	15:10	Kestrel	1	lowland blanket bog, hunting and flying, female		ED
K005	RVP3	28/04/2020	11:25	Kestrel	1	lowland blanket bog, flying, adult		ED
K006	RVP6	28/04/2020	13:05	Kestrel	1	improved agricultural grassland, hunting, male		ED
K007	RVP6	29/04/2020	15:15	Kestrel	1	lowland blanket bog, flying, male		ED
K008	RVP9	09/05/2020	16:39	Kestrel	1	lowland blanket bog, hunting, male		ED
K009	RVP2	19/05/2020	12:40	Kestrel	1	lowland blanket bog, flying, male		ED
K010	RVP7	19/05/2020	15:35	Kestrel	1	improved agricultural grassland, flying, adult		ED
K011	RVP7	20/05/2020	16:00	Kestrel	1	lowland blanket bog, flying and hunting, male		ED
K012	RVP7	21/05/2020	17:50	Kestrel	1	lowland blanket bog, in flight, adult		ED
K013	T7	16/07/2020	10:56	Kestrel	1	cutover bog and mixed broadleaved/conifer woodland, hunting		PM
K014	T3	21/07/2020	07:18	Kestrel	1	mixed broadleaved/conifer woodland, travelling		PM
K015	road out of Delvin to NE of site	19/05/2021	15:48	Kestrel	1	hedgerows and improved agricultural grassland, perched on post - took up and headed south, foraging	suitable nesting habitat; possible breeder	KB
K016	Transect 7, 8 + 1; BRVP7	25/05/2021	16:45	Kestrel	1	scrub and cutover bog, adult female foraging along road - headed NE into bog	suitable nesting habitat; possible breeder	KB
K017	BRVP2	06/07/2021	14:18	Kestrel	1	conifer plantation, foraging	suitable nesting habitat; possible breeder	KB

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
K018	Transect 1	08/07/2021	15:16	Kestrel	1	cutover bog and scrub, adult female foraging	suitable nesting habitat; possible breeder	KB
K019	Transect 1	08/07/2021	15:24	Kestrel	1	cutover bog, foraging	suitable nesting habitat; possible breeder	KB
K020	Transect 8	30/07/2021	10:28	Kestrel	2	bog woodland, begging calls, flying low beneath canopy keeping to the same area, possibly both juveniles	fledged young; confirmed breeding	KS
K021	RVP1	05/04/2022	10:41	Kestrel	1	conifer plantation, hunting	flyover; non-breeding	KS
K022	T6	05/04/2022	11:10	Kestrel	1	conifer plantation, mobbed, mobbed by crow	suitable nesting habitat; possible breeder	KS
K023	T7	13/04/2022	11:40	Kestrel	1	mixed broadleaved/conifer woodland and cutover bog, mobbing, mobbed BZ	suitable nesting habitat; possible breeder	KS
K024	T7	13/04/2022	11:56	Kestrel	2	cutover bog, hunting	pair; probable breeding	KS
K025	RVP5	07/06/2022	18:34	Kestrel	1	improved agricultural grassland, carrying prey, male	adult carrying food/faecal sac; confirmed breeding	KS
K026	RVP1	09/06/2022	16:43	Kestrel	1	improved agricultural grassland, carrying prey, male, at mouse first and carried second north	adult carrying food/faecal sac; confirmed breeding	KS
K027	RVP1	25/07/2022	15:58	Kestrel	1	cutover bog and mixed broadleaved/conifer woodland, flushed, agitated, female	agitated behaviour; probable breeding	KS

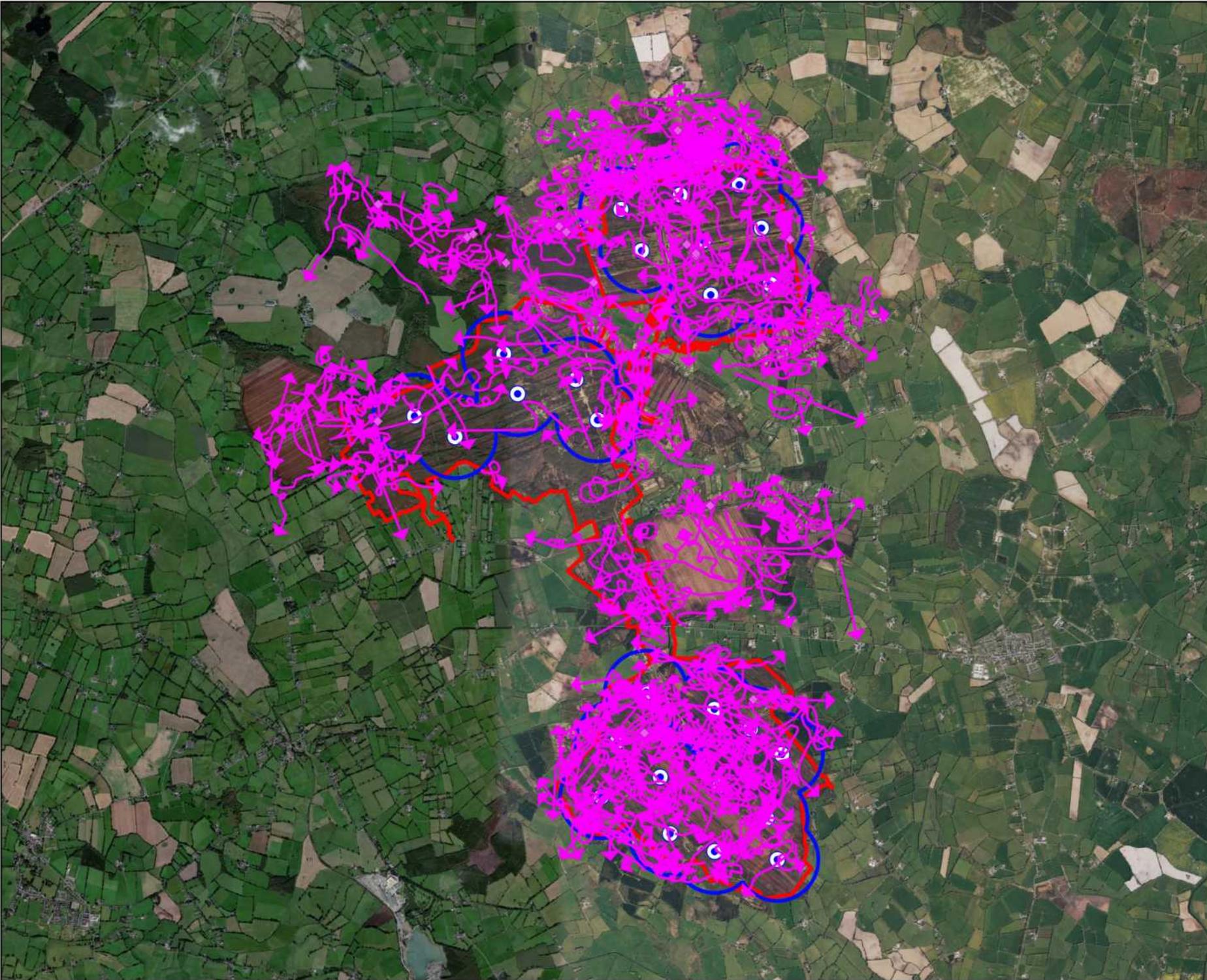
Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
K001	22/10/2020	13:15	Kestrel	1	bogs; hunting	JC
K002	16/02/2021	09:46	Kestrel	1	raised bog, bog woodland and grassland and marsh; hunting	PT

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
K003	26/02/2021	10:42	Kestrel	1	cutover bog and bog woodland; in flight	PT
K004	29/03/2021	14:37	Kestrel	1	bogs; travelling	AR
K005	30/03/2021	12:03	Kestrel	1	bogs and highly modified/non-native woodland; travelling, female	AR
K006	30/11/2021	11:31	Kestrel	1	cutover bog; hunting, hunting - disturbed by locomotive driving through site	IH
K007	30/11/2021	11:43	Kestrel	1	cutover bog; hunting, hunting over bog, hovering and moving on before lost from view at 11:47	IH
K008	30/11/2021	12:24	Kestrel	1	cutover bog; flying, flew overhead to SE	IH
K009	18/03/2022	18:23	Kestrel	1	cutover bog; travelling	NM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
K001	CMVP1	02/12/2020	16:08	Kestrel	1	60	cutover bog; foraging and hovering	KB
K002	CMVP1	04/02/2021	08:45	Kestrel	1	100	cutover bog and mixed broadleaved/conifer woodland; hunting, descended to bog	DM
K003	CMVP3	10/10/2021	17:48	Kestrel	1	5	improved agricultural grassland, flying	TS
K004	CMVP1	02/11/2021	17:04	Kestrel	1	33	improved agricultural grassland, flying hunting	TS
K005	CMVP1	02/12/2021	15:40	Kestrel	1	150	raised bog and mixed broadleaved/conifer woodland, flying, hunting	TS
K006	CMVP2	25/01/2022	15:00	Kestrel	1	20	improved agricultural grassland and buildings and artificial surfaces; flying, perched, perched on church tower	TS

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
K001	Vantage Point Survey, VP10	23/04/2020		Kestrel	1		PC
K002	Vantage Point Survey, on way to VP9 from VP10	23/04/2020		Kestrel	1		PC
K003	Vantage Point Survey, VP5	07/05/2020		Kestrel	1		PC
K004	Breeding Woodcock Survey, T1	02/06/2020	21:40	Kestrel	1	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
K005	Vantage Point Survey, VP4	06/08/2020	12:10	Kestrel	1		PC
K006	Vantage Point Survey, VP4	06/08/2020	15:25	Kestrel	2		PC
K007	Vantage Point Survey, VP5	11/08/2020		Kestrel	1		PC
K008	Waterbird Distribution Survey, Lough Analla	10/09/2020	15:20	Kestrel	1		PW
K009	Breeding Barn Owl Survey, BOVP1	25/01/2021	16:48	Kestrel	1	improved agricultural grassland and hedgerows; perching and hunting, flew down from perch in hawthorn. not mapped	DW
K010	Waterbird Distribution Survey, over bog	15/03/2021	11:51	Kestrel	2	raised bog and scrub; two individuals chasing each other, one with twigs in mouth, pair exhibiting nesting behaviour	NM
K011	Waterbird Distribution Survey,	30/03/2021	10:35	Kestrel	1	improved agricultural grassland, dry calcareous and neutral grassland and scrub; hunting / hovering over rough grassland / willow scrub	NM
K012	Breeding Barn Owl Survey, BOVP1	29/05/2021	21:52	Kestrel	1	improved agricultural grassland and stone walls and other stonework; flew into castle, possible kestrel nest in top left of castle	IH
K013	Breeding Barn Owl Survey, BOVP1	29/05/2021	22:17	Kestrel	1	improved agricultural grassland and stone walls and other stonework; flew out of castle - hunting, kestrel flew out of top window and across road behind surveyor	IH
K014	Breeding Barn Owl Survey, BOVP1	13/07/2021	22:05	Kestrel	1	improved agricultural grassland; at entrance to castle, looked like juvenile, light poor. soring BOVP1	DW
K015	Vantage Point Survey, near VP1	25/08/2021	12:24	Kestrel	3	bog woodland and bogs; flying, adult male and female observed with juvenile. heard calling loudly.	CR
K016	Vantage Point Survey, near VP1	25/08/2021	12:30	Kestrel	1	bog woodland and bogs; flying, adult male observed flying over the treetops heading north.	CR

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
K017	Wintering Golden Plover Survey, Wooddown bog	04/03/2022	10:57	Kestrel	1	improved agricultural grassland, scrub and bogs; travelling	JM
K018	Breeding Raptor Survey, BOVP1	08/04/2022	19:35	Kestrel	1	improved agricultural grassland; arrival at nest site, male kestrel seen at entrance of previously occupied nest site	NM
K019	Breeding Raptor Survey, BOVP1	08/04/2022	19:48	Kestrel	1	improved agricultural grassland; mobbed by jackdaws, male seen chasing and being pursued by pair of jackdaws	NM
K020	Breeding Raptor Survey, BOVP1	06/05/2022	20:28	Kestrel	1	improved agricultural grassland; travelling/perched, male kestrel actively protecting nest above barn owl nest	NM
K021	Breeding Raptor Survey, BOVP1	06/05/2022	20:57	Kestrel	1	improved agricultural grassland; returning to nest, male kestrel seen entering kestrel nest entrance	NM
K022	Vantage Point Survey, n 645 579	07/06/2022	16:40	Kestrel	1	heath: hovering, drive by at level crossing on way to VP11. not mapped	EF
K023	Breeding Woodcock Survey, WKT11	16/06/2022	21:50	Kestrel	1	cutover bog and scrub; flying/hovering	EF
K024	Breeding Raptor Survey, BOVP2	11/07/2022	21:09	Kestrel	1	buildings and artificial surfaces, mixed broadleaved/conifer woodland and cutover bog; perched, flew, male	KS
K025	Breeding Barn Owl Survey, BOVP1	18/07/2022	22:13	Kestrel	1	improved agricultural grassland; from castle nest, flew se, nest with chicks; k chick calls from castle also	KS
K026	Waterbird Distribution Survey, Derrymore springs	07/09/2022	09:15	Kestrel	2	lakes and ponds and improved agricultural grassland; travelling	DM
K027	Vantage Point Survey, VP12	13/09/2022	14:05	Kestrel	1	cutover bog; hunting	KS
K028	Vantage Point Survey, VP6	21/09/2022	17:02	Kestrel	1	cutover bog and conifer plantation; hunting/mobbed, bird observed hunting	NM



Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  500m Turbine Buffer
-  Flightline
-  Observation



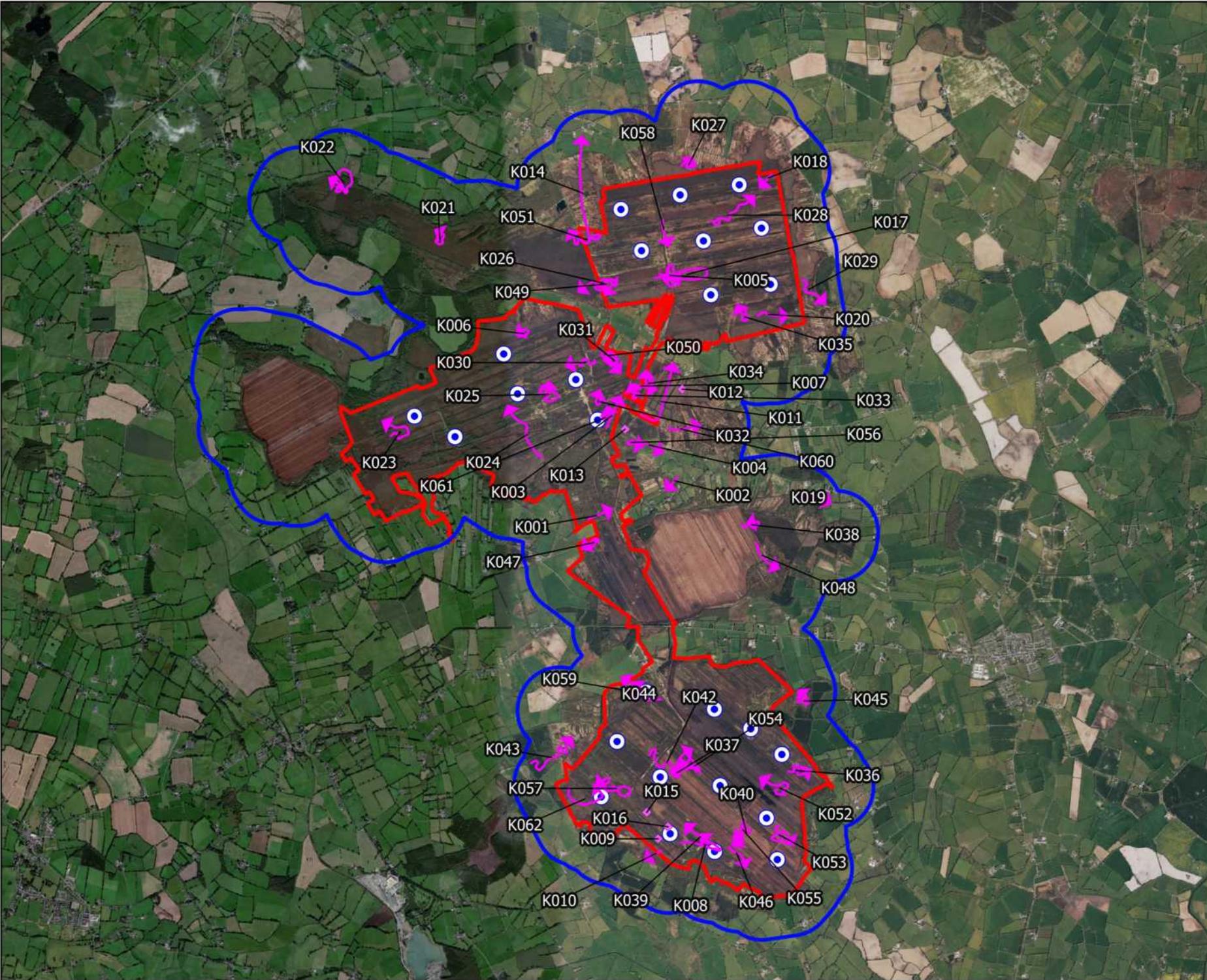
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Drawing Title
**Kestrel Observations
 Vantage Point Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.1.11
Scale 1:60000	Date 14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title
**Kestrel Observations
 Breeding Walkover Surveys**

Project Title
Ballivor Wind Farm

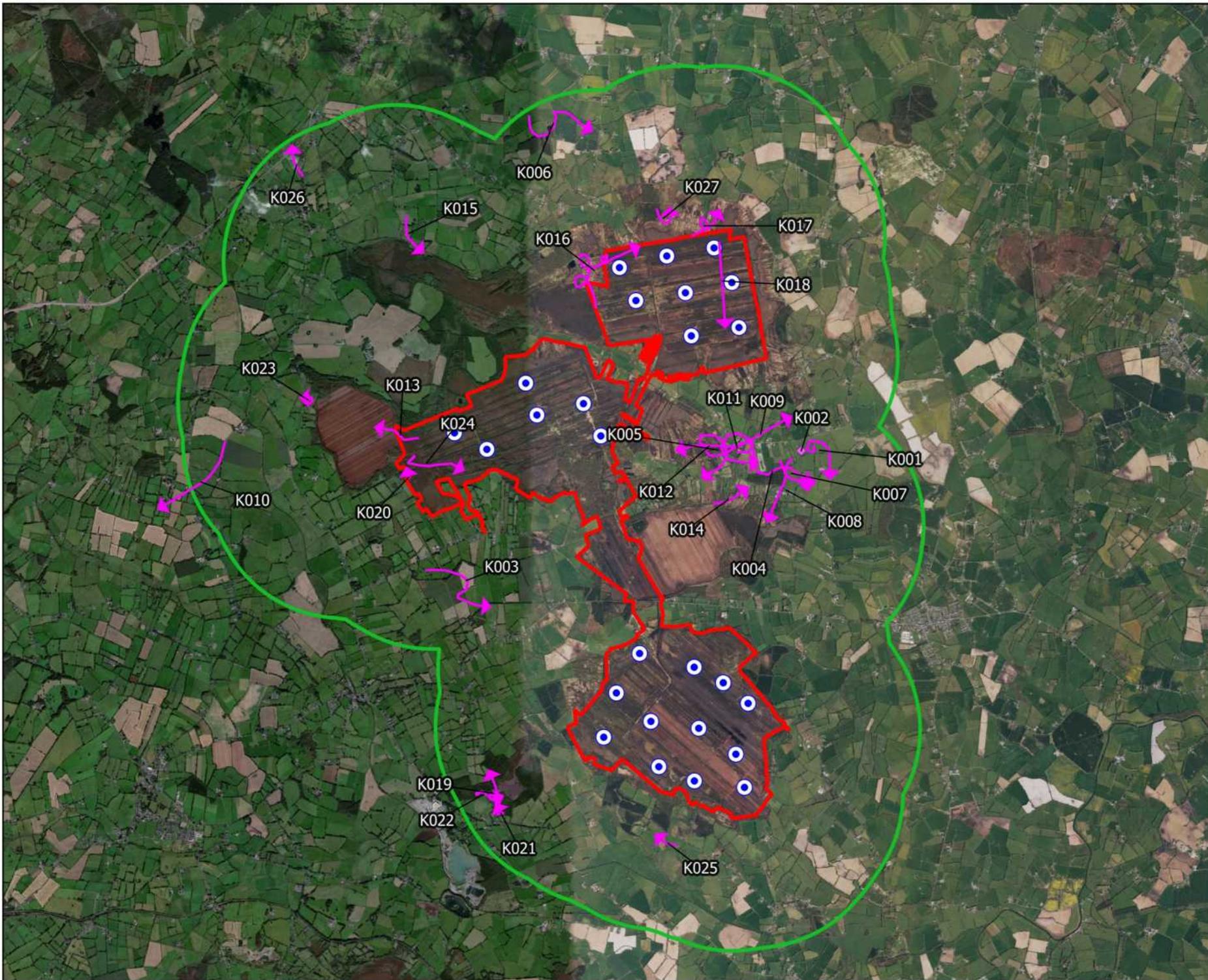
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title

Kestrel Observations
Breeding Raptor Surveys

Project Title

Ballivor Wind Farm

Drawn By

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Checked By

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Drawing No.

Fig. 7.4.1

Scale

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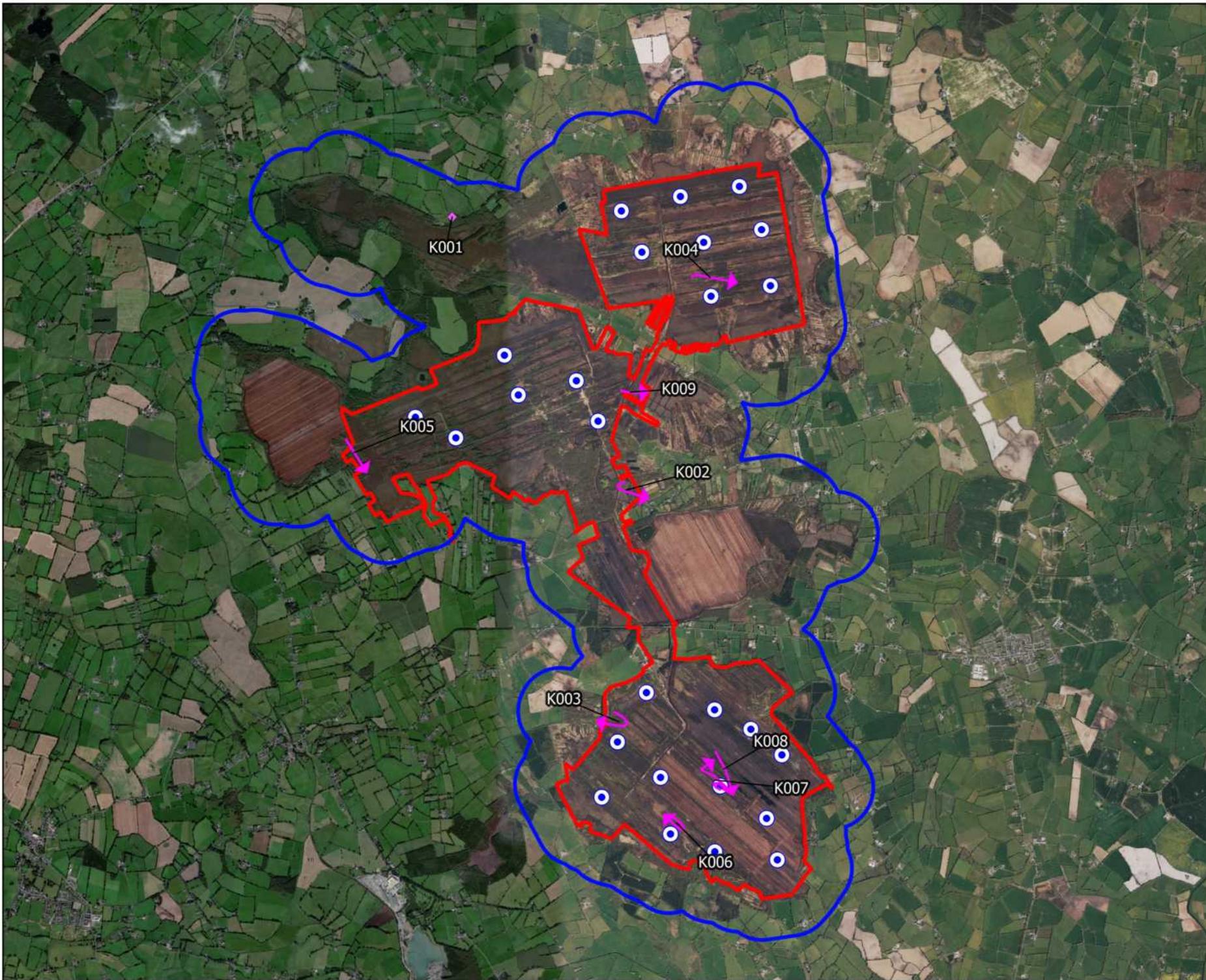
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title

Kestrel Observations
Winter Walkover Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.7.7

Scale

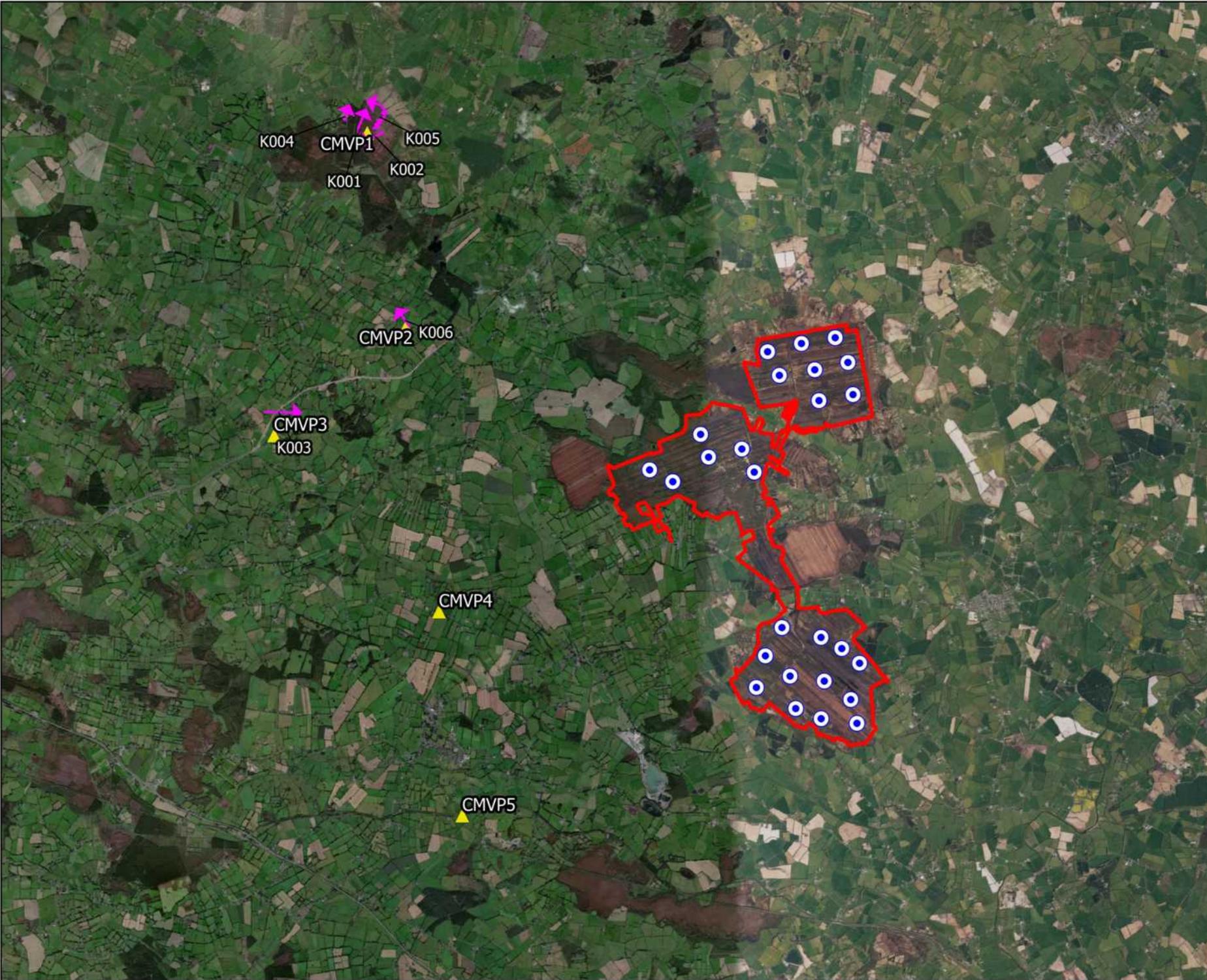
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Connectivity Vantage Point Survey Location
-  Flightline



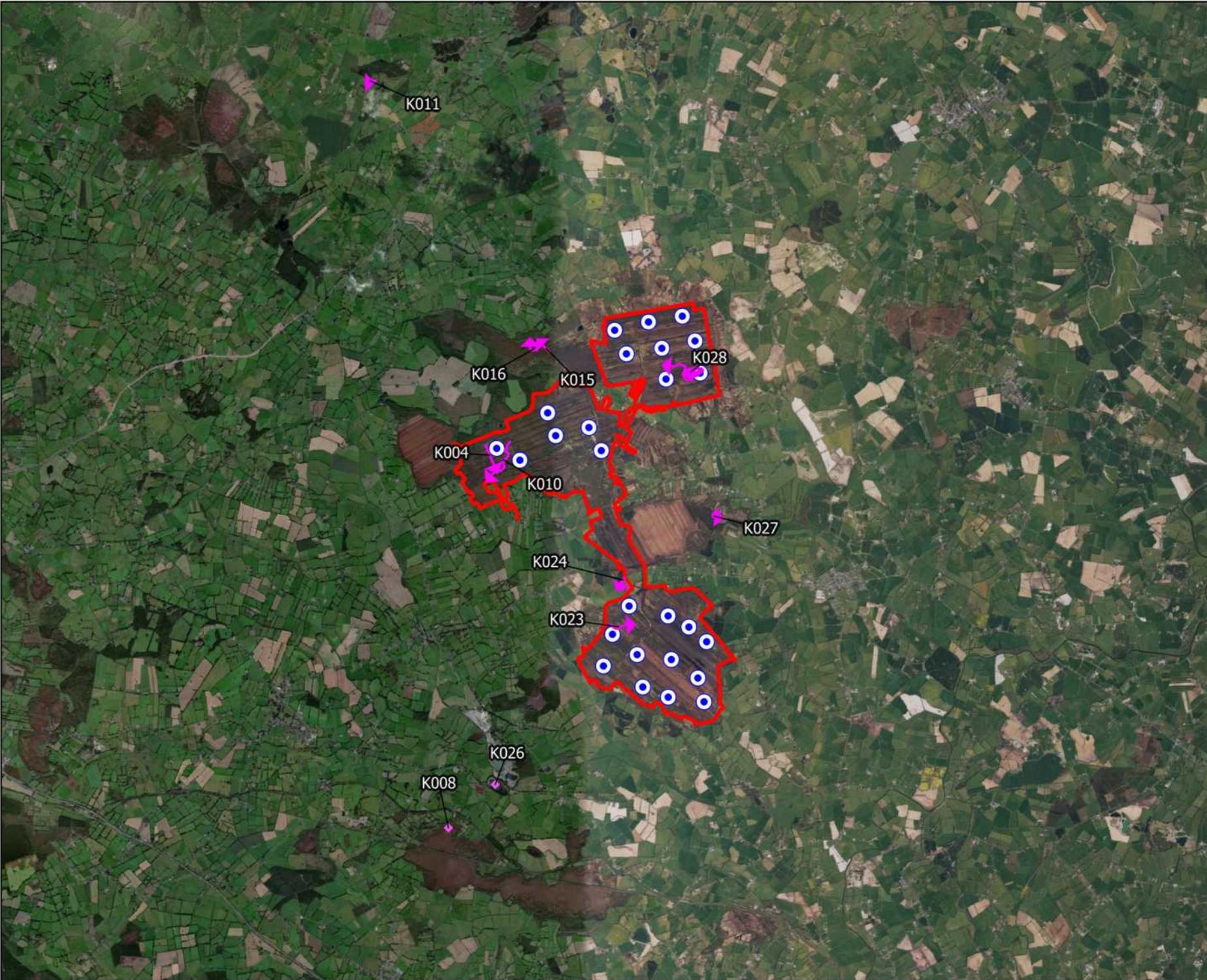
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Drawing Title
**Kestrel Observations
 Connectivity VP Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.9.6
Scale 1:105000	Date 14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline
- ◆ Observation



Drawing Title	
Kestrel Incidental Observations	
Project Title	
Ballivor Wind Farm	
Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.12.9
Scale	Date
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Table 13 Lapwing Survey Data

Vantage Point Surveys												
Map 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
L002	VP8	24/07/2020	12:40	Lapwing	14	0	0				peatlands; landed on bog and roosting on ground for 2 hours, adults	ED
L003	VP8	24/07/2020	13:35	Lapwing	10	0	0				peatlands; landed on bog and roosting on ground for 1 hour, adults	ED
L004	VP15	25/07/2020	14:40	Lapwing	1	20	20					ED
L005	VP14	28/07/2020	13:10	Lapwing	20	20		20				ED
L006	VP3	29/07/2020	17:10	Lapwing	1	10		10			peatlands; flying	ED
L007	VP16	07/12/2020	11:50	Lapwing	72	40	0	0	40	0	cutover bog; travelling	KB
L010	VP13	08/01/2021	09:12	Lapwing	1	65	0	0	65	0	cutover bog; travelling	DM
L011	VP13	08/01/2021	11:25	Lapwing	3	130	0	0	130	0	cutover bog; travelling	DM
L012	VP13	08/01/2021	12:12	Lapwing	5	115	0	0	115	0	cutover bog; travelling	DM
L013	VP15	09/01/2021	13:06	Lapwing	4	30	0	30	0	0	cutover bog; travelling	KB
L008	VP6	21/01/2021	12:41	Lapwing	12	133	0	0	133	0	cutover bog and immature woodland; travelling	DW
L009	VP6	21/01/2021	13:21	Lapwing	16	192	0	0	192	0	cutover bog and scrub; travelling	DW
L023	VP12	10/02/2021	14:51	Lapwing	60	90	0	0	90		cutover bog; travelling	KB
L014	VP4	15/02/2021	12:37	Lapwing	72	355	0	0	355	0	cutover bog and improved agricultural grassland; circling	DW
L015	VP4	15/02/2021	16:02	Lapwing	67	463	0	0	463	0	improved agricultural grassland; circling	DW
L016	VP4	15/02/2021	16:38	Lapwing	57	35	0	15	20	0	improved agricultural grassland; travelling	DW
L017	VP3	17/02/2021	13:54	Lapwing	96	81	0	11	50	0	improved agricultural grassland; circling	DW
L018	VP3	17/02/2021	14:11	Lapwing	124	180	0	0	180	0	improved agricultural grassland; circling, largely outside viewshed	DW
L019	VP3	17/02/2021	14:35	Lapwing	145	255	0	0	255	0	improved agricultural grassland; circling, beyond viewshed	DW

Vantage Point Surveys												
Map 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
L020	VP3	17/02/2021	15:01	Lapwing	76	125	10	20	95	0	improved agricultural grassland; travelling and landing, landing in field	DW
L021	VP3	17/02/2021	16:55	Lapwing	55	75	0	0	75	0	improved agricultural grassland; travelling	DW
L022	VP8	24/02/2021	14:24	Lapwing	15	71	0	21	50	0	improved agricultural grassland; circling, looked to maybe go for landing, hidden by trees	DW
L024	VP4	11/03/2021	10:08	Lapwing	60	125	0	0	125	0	improved agricultural grassland and cutover bog; circling, partly beyond viewshed	DW
L025	VP8	18/03/2021	10:21	Lapwing	3	325	0	25	300	0	cutover bog, improved agricultural grassland and mixed broadleaved woodland; travelling loosely together, calling	DW
L026	VP8	18/03/2021	11:43	Lapwing	1	60	0	30	30	0	improved agricultural grassland and cutover bog; mobbing BZ and calling, potential early nesting signs	DW
L028	VP8	31/07/2021	13:54	Lapwing	55	40	0	0	40	0	scrub, cutover bog and improved agricultural grassland, flying, flock passing through on the edge of the viewshed	SJ
L029	VP8	31/07/2021	13:56	Lapwing	20	30	0	0	30	0	scrub, cutover bog and improved agricultural grassland, flying, second flock passing through on the edge of the viewshed	SJ
L030	VP8	31/07/2021	14:03	Lapwing	10	40	0	0	40	0	scrub, cutover bog and improved agricultural grassland, flying, third small flock passing through on the edge of the viewshed	SJ
L031	VP13	13/10/2021	10:20	Lapwing	14	30	0	0	30	0	cutover bog; travelling	KS
L032	VP8	21/10/2021	10:48	Lapwing	3	155	0	0	155	0	mixed broadleaved/conifer woodland, travelling	JM

Vantage Point Surveys												
Map 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
L033	VP13	14/12/2021	09:45	Lapwing	23	90	90	0	90	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
L034	VP15	17/12/2021	07:55	Lapwing	1	5	5	0	5	0	cutover bog; calling, not seen	KS
L035	VP14	10/01/2022	15:39	Lapwing	14	45	0	45	45	0	cutover bog and bog woodland; travelling	KS

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
L027	VP3	17/02/2021	15:04	Lapwing	76	improved agricultural grassland; on ground, landed in field	DW

Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
L001	20/04/2020	13:37	Lapwing	2	cutover bog; pair on territory, female possibly on nest, sitting tight for prolonged period, though male scraping and displaying	PT
L002	28/04/2020	09:09	Lapwing	2	cutover bog; on bog and mobbing corvids; no sign of nesting; presumed same 2 as on 20th.	PT
L003	08/06/2020	17:48	Lapwing	14	arable crops: circled low over arable, possibly dropped out of view before buzzard dropped	PT
L004	09/06/2020	12:31	Lapwing	6	cutover bog and improved agricultural grassland; post-breeding flock, feeding in field, flew off	PT
L005	09/06/2020	13:32	Lapwing	3 or 4	arable crops and improved agricultural grassland; short flight between fields, no evidence of breeding; birds from obs.no. 29? possibly only part of flock visible	PT

Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
L006	20/06/2020	10:02	Lapwing	1	cutover bog: anxiety behaviour as I approached indicative of chick(s) nearby, alert, calling, returned to same area after flights, female	PT
L007	20/06/2020	10:14	Lapwing	16	cutover bog; roosting	PT
L008	20/06/2020	11:57	Lapwing	3	cutover bog; flushed (probably roosting?), dropped down to larger flock	PT
L009	20/06/2020	11:59	Lapwing	1	cutover bog; anxiety behaviour as I approached indicative of chick(s) nearby, alert, calling, flying above area it had been on ground; additional bird to obs.no.38	PT
L010	11/07/2020	07:03	Lapwing	12	cutover bog; one initially anxiety calling as I approached, presumed with chick(s) nearby	PT
L011	11/07/2020	07:57	Lapwing	3	drainage ditches and cutover bog; one (female?) anxiety calls, alert, keeping watch, presumed with chick(s) nearby	PT
L012	11/07/2020	08:06	Lapwing	9	bog woodland and raised bog; dropped to cutover	PT
L013	16/07/2020	08:45	Lapwing	1	grassland and marsh and cutover bog; resting/feeding on ground	PT
L014	16/07/2020	09:05	Lapwing	1	grassland and marsh and cutover bog; on ground	PT
L015	08/07/2021	10:23	Lapwing	1	improved agricultural grassland; rising up and calling, then landing and foraging/preening, watched for 20mins (agitated behaviour; probable breeding)	DW
L016	08/07/2021	14:53	Lapwing	1	improved agricultural grassland; on ground, foraging and preening, visited again later in day (suitable nesting habitat; possible breeder)	DW
L017	09/07/2021	15:31	Lapwing	2	improved agricultural grassland; adult seen mobbing mg, then fledgeling seen on ground among reeds (fledged young; confirmed breeding)	DW
L018	14/07/2021	17:44	Lapwing	22	improved agricultural grassland; foraging on ground, then flushed and circling high., likely flock of post-breeding birds (summering; non-breeding)	DW
L019	14/07/2021	19:30	Lapwing	1	improved agricultural grassland; agitated calling (agitated behaviour; probable breeding)	DW

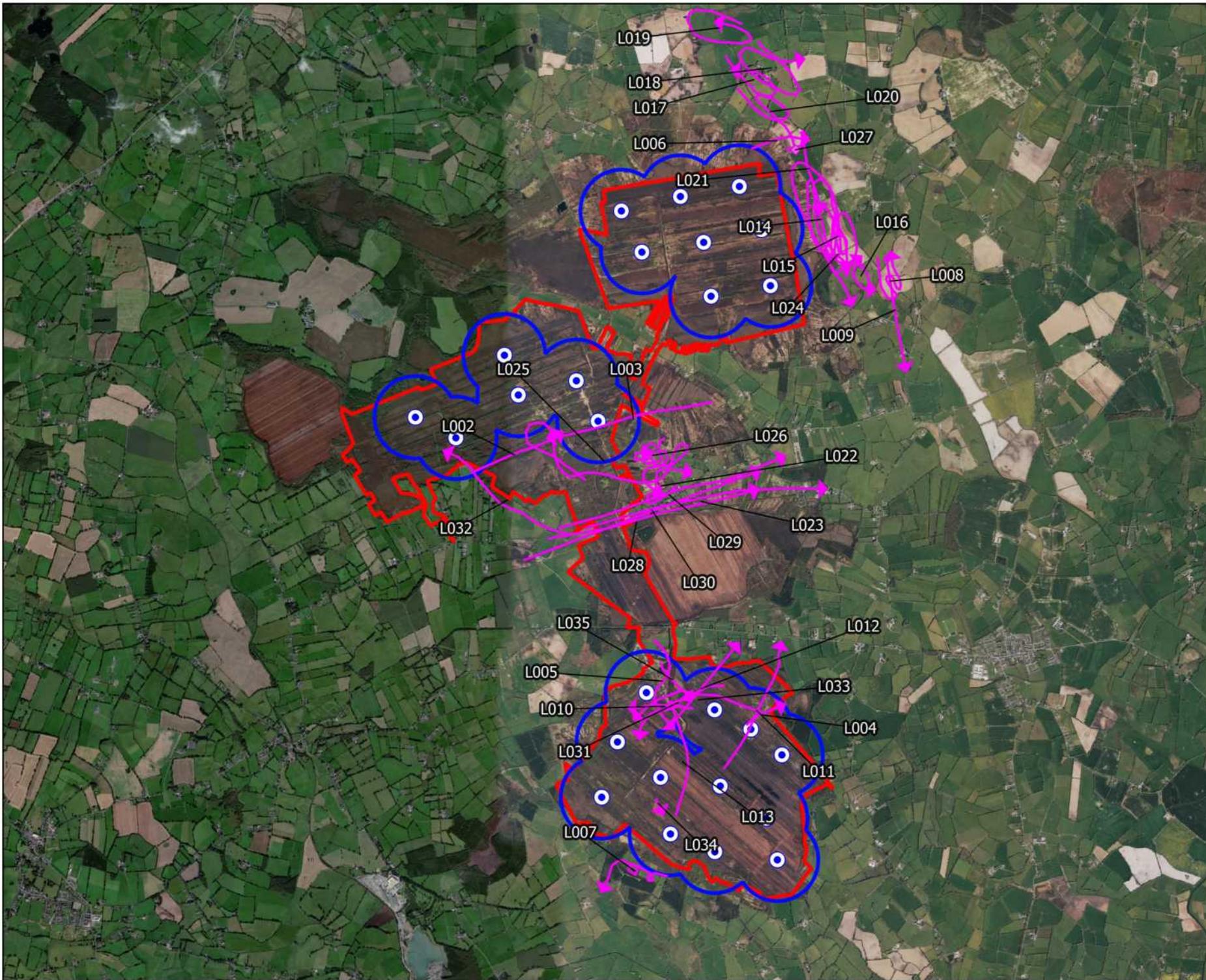
Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
L001	N of Ballivor	30/12/2020		Lapwing	19	arable crops; feeding/roosting, in stubble field	DM
L002	Annalla fields	30/12/2020		Lapwing	16	improved agricultural grassland, feeding/roosting, wet grassland	DM
L003	N. of Ballivor	12/01/2021	09:30	Lapwing	7	arable crops; feeding, wet stubbles	DM
L004	Annalla Fields	12/01/2021	13:30	Lapwing	8	improved agricultural grassland, feeding, wet grassland	DM
L005		15/03/2021	15:34	Lapwing	27	tilled land; foraging on wet tilled field, adjacent to r. Boyne	NM
L006		30/03/2021	11:42	Lapwing	16	tilled land and spoil and bare ground; foraging on bare freshly ploughed ground	NM
L007		30/03/2021	11:55	Lapwing	18	spoil and bare ground and tilled land; foraging on wet disturbed tilled ground, around large muddy puddle in low point of field	NM
L008		30/03/2021	14:54	Lapwing	2	improved agricultural grassland, canals and hedgerows, flying and calling, weaving and swooping steadily SW (along canal and ga1), display flying and calling	NM
L009		30/03/2021	14:59	Lapwing	12	spoil and bare ground and tilled land; foraging on bare ground	NM
L010	Annalla fields	26/11/2021	12:00	Lapwing	75	improved agricultural grassland, feeding	DM
L011	N. of Ballivor	13/12/2021	11:00	Lapwing	15	arable crops; feeding	DM
L012	Reynella lake	28/12/2021	14:30	Lapwing	100	improved agricultural grassland, travelling, approx. count	DM
L013	N. of Killucan	28/12/2021	15:00	Lapwing	6	improved agricultural grassland; roosting, flooded field	DM
L014	N of Killucan	13/01/2022	15:30	Lapwing	4	improved agricultural grassland; roosting, flooded field	DM
L015	River Deel	24/01/2022	10:30	Lapwing	75	arable crops; feeding	DM
L016	N of Killucan	24/01/2022	15:30	Lapwing	5	improved agricultural grassland; roosting	DM
L017	N. of Ballivor	14/03/2022	09:30	Lapwing	3	arable crops; displaying	DM

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
L018	N. of Ballivor	14/04/2022	10:15	Lapwing	5	arable crops; displaying, field being ploughed	DM
L019	N. of Ballivor	29/04/2022	10:00	Lapwing	1	arable crops; feeding, newly planted maize	DM
L020	Annalla Lakes	07/09/2022	14:00	Lapwing	1	lakes and ponds and improved agricultural grassland; travelling	DM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
L001	CMVP3	27/11/2020	14:29	Lapwing	12	60	improved agricultural grassland, flying over. landed on ground, flock flew over VP heading south. undulating flight. dropped down into field behind VP, foraging	KB
L002	CMVP1	04/02/2021	10:10	Lapwing	70		improved agricultural grassland; roosting	DM
L003	CMVP3	22/02/2021	08:46	Lapwing	6	95	improved agricultural grassland, travelling	DM
L004	CMVP3	25/11/2021	09:33	Lapwing	20	35	improved agricultural grassland; flying	TS
L005	CMVP3	19/12/2021	09:12	Lapwing	42	70	improved agricultural grassland, wet grassland and hedgerows, flying	TS

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
L001	Breeding Raptor Survey, RVP7	28/04/2020	13:00	Lapwing	2	improved agricultural grassland; nesting pair, adult	ED
L002	Breeding Raptor Survey, RVP10	09/05/2020	15:05	Lapwing	4	improved agricultural grassland; nesting pairs, adult	ED
L003	Breeding Raptor Survey, RVP10	19/05/2020	14:10	Lapwing	4	improved agricultural grassland; nesting pairs, adult	ED

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
L004	Breeding Raptor Survey, RVP8	21/05/2020	17:50	Lapwing	6	improved agricultural grassland; family group in field, pair and four one-day old chicks	ED
L005	Vantage Point Survey, VP8	10/06/2020		Lapwing	1		PC
L006	Breeding Raptor Survey, T1	11/06/2020	10:04	Lapwing	1	improved agricultural grassland, travelling	PM
L007	Breeding Raptor Survey, T1	11/06/2020	11:03	Lapwing	3	arable crops; travelling	PM
L008	Vantage Point Survey, VP4	02/07/2020		Lapwing	1		PC
L009	Breeding Raptor Survey, transect 4	07/07/2021	15:55	Lapwing	2	improved agricultural grassland; adult pair alarm calling - mobbed off a sparrowhawk and landed in field	KB
L010	Connectivity Vantage Point Survey, near n52 turn for Williamstown	03/12/2021	13:50	Lapwing	40	improved agricultural grassland, flying	TS
L011	Wintering Golden Plover Survey, downs bog	14/12/2021	13:03	Lapwing	40	bogs and conifer plantation; feeding	JM
L012	Wintering Golden Plover Survey, Lough Owel	14/12/2021	14:02	Lapwing	75	lakes and ponds; travelling	JM
L013	Vantage Point Survey, track to VP14	15/12/2021	07:29	Lapwing	1	cutover bog; calling, not seen	KS
L014	Wintering Golden Plover Survey, the downs, Newdown	20/01/2022	13:06	Lapwing	30	bogs; travelling	JM
L015	Vantage Point Survey, VP14	04/02/2022	07:42	Lapwing	1	cutover bog; calling	KS
L016	Wintering Golden Plover Survey, the downs	10/02/2022	11:16	Lapwing	100	bogs and scrub; travelling	JM
L017	Vantage Point Survey, behind the forestry at the W of VP14	15/03/2022	17:02	Lapwing	1	cutover bog; calling	TS



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline
- ◆ Observation



Drawing Title

Lapwing Observations
Vantage Point Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

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Drawing No.

Fig. 7.1.12

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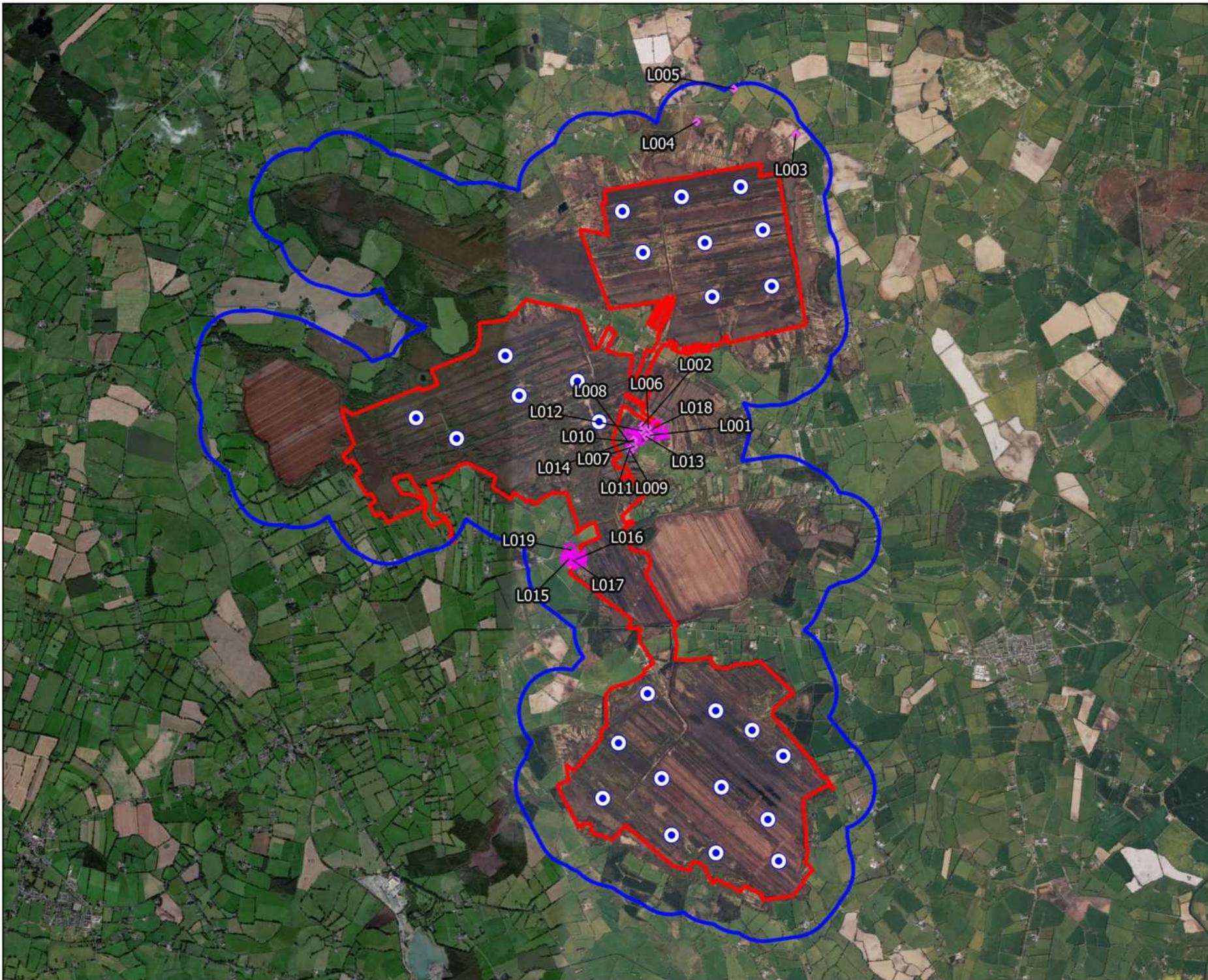
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title

Lapwing Observations
Breeding Walkover Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.3.7

Scale

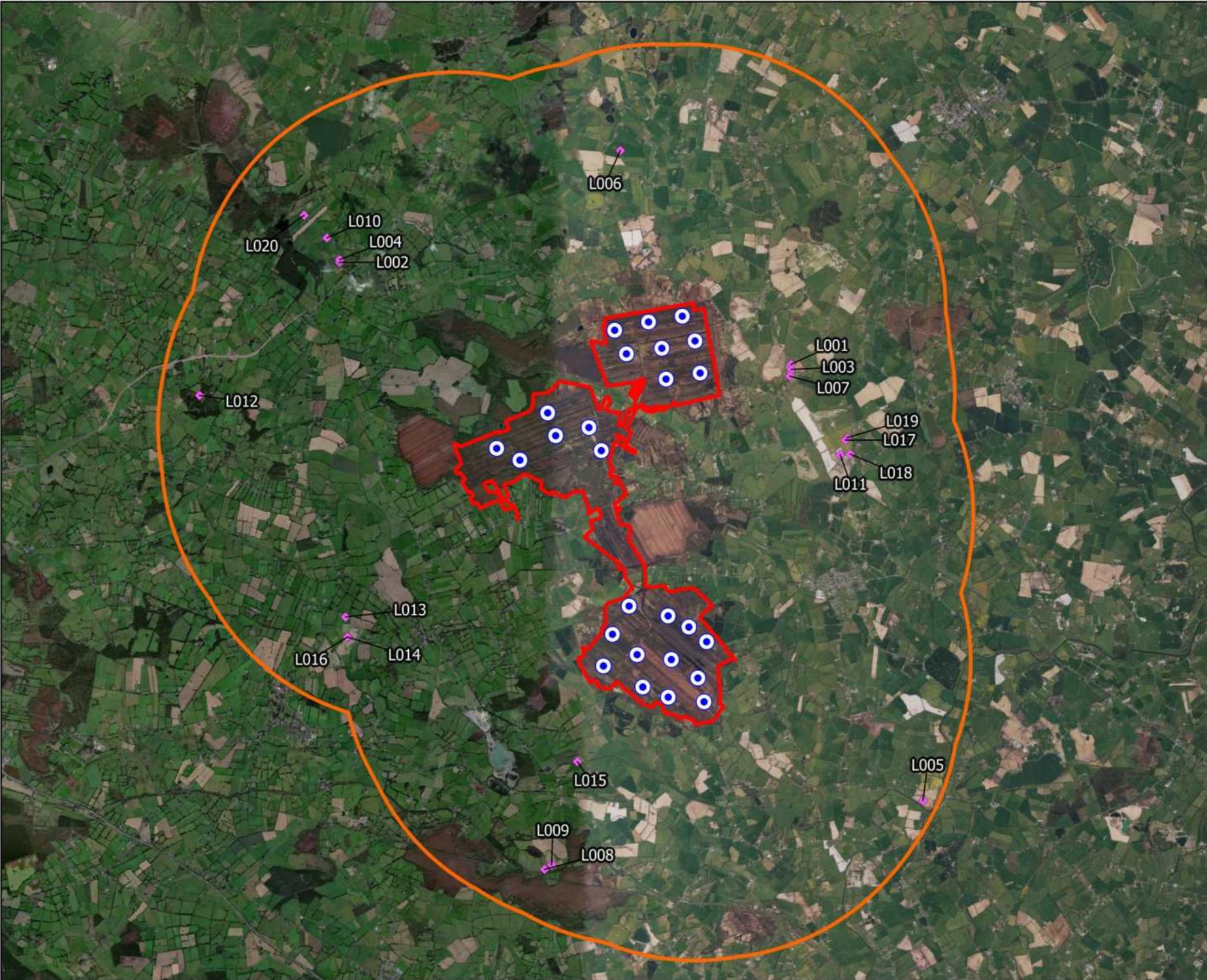
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- ◆ Observation



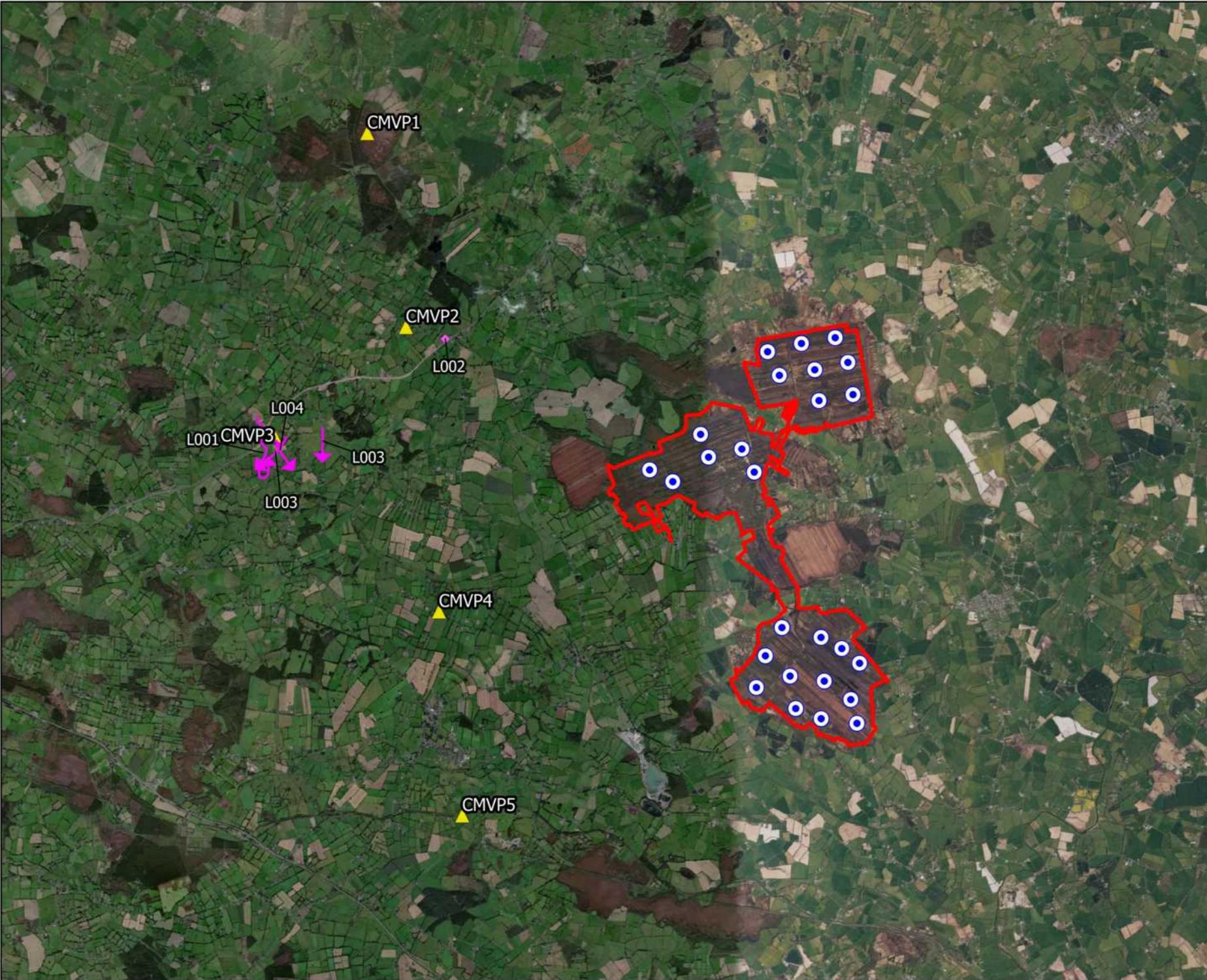
Drawing Title
**Lapwing Observations
 Waterbird Distribution Surveys**

Project Title
Ballivor Wind Farm

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Project No. 191137	Drawing No. Fig. 7.8.6
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Connectivity Vantage Point Survey Location
-  Flightline



Drawing Title	
Lapwing Observations Connectivity VP Surveys	
Project Title	
Ballivor Wind Farm	
Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.9.7
Scale	Date
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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Flightline



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Drawing Title
**Lapwing
 Incidental Observations**

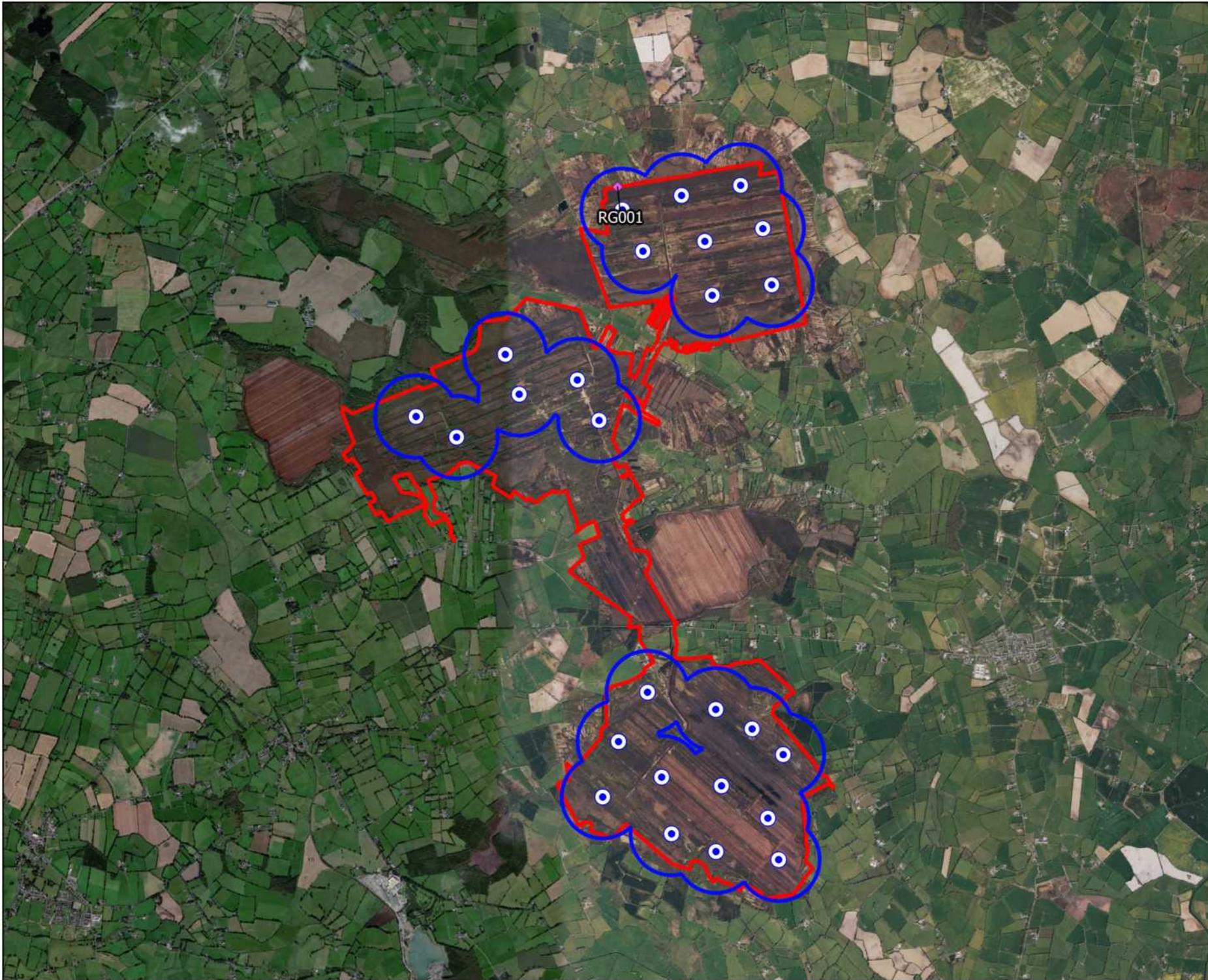
Project Title
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Project No. 191137	Drawing No. Fig. 7.12.10
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Table 14 Red Grouse Survey Data

Vantage Point Surveys												
Map 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
RG001	VP3	28/04/2020	09:00	Red Grouse	1							PC



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- ◆ Observation



Drawing Title

Red Grouse Observations
Vantage Point Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.1.13

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Date

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Table 15 Snipe Survey Data

Vantage Point Surveys												
Map 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	VP13	21/04/2020	11:50	Snipe	1	2	2				bogs: flushed by BnM machine, flew off bog and settled again. brief "chack" call.	PC
SN002	VP15	18/05/2020	08:00	Snipe	1						cutover bog: chipping, heard only	DM
SN003	VP11	19/05/2020	04:45	Snipe	1						cutover bog: drumming, heard only	DM
SN005	VP4	02/06/2020	06:15	Snipe	1	18	18				bog woodland and bogs; drumming and calling in flight	PC
SN006	VP4	02/06/2020	06:15	Snipe	2	30	30				bog woodland and bogs; came up from viewshed 5 to join sn001, drumming and calling	PC
SN007	VP4	02/06/2020	06:30	Snipe	1	17	4	13			bog woodland and bogs; came up from viewshed 4 before displaying and then heading off over viewshed 5	PC
SN008	VP4	02/06/2020	07:10	Snipe	1	26	26				bog woodland and bogs; drumming - circled twice then landed in front of viewpoint	PC
SN009	VP4	02/06/2020	07:35	Snipe	2	28	28				bog woodland; pair drumming, lost against the sky under the sun	PC
SN010	VP4	02/06/2020	07:40	Snipe	3	42	5				bog woodland and bogs; came out of viewshed 4 but headed straight over viewshed 5, circling over vs5	PC
SN011	VP4	02/06/2020	07:42	Snipe	1	362	100				bog woodland and bogs; came out of and circled over viewshed 4 before heading off over viewshed 5. timings are approximate as I kept losing the bird against the sky but could hear the drumming	PC
SN012	VP4	02/06/2020	09:09	Snipe	1	25	25				bog woodland and bogs; came out of viewshed 5, circled over viewshed 4 before alighting in 4	PC

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SN013	VP6	03/06/2020	06:25	Snipe	1	6	6				bog woodland and bogs; heard drumming then brief flight across viewshed towards viewshed 4	PC
SN014	VP5	04/06/2020	06:20	Snipe	1						bog woodland; heard drumming from viewshed but no flight observed. drumming for about 3 minutes.	PC
SN015	VP5	04/06/2020	06:27	Snipe	1	7	7				bog woodland and bogs; flew out of viewshed and off over viewshed 4	PC
SN016	VP5	04/06/2020	07:56	Snipe	1	115	50	65			bog woodland and bogs; flew out of viewshed 4, looped round viewshed 5 then back to viewshed 4, drumming	PC
SN017	VP5	04/06/2020	10:41	Snipe	1	2	2				bog woodland; bird flew up from viewshed then dropped straight back to where it came from	PC
SN018	VP7	10/06/2020	07:02	Snipe	2	11		11			bog woodland and bogs; appeared over VP, didn't see where they came from. no drumming heard. headed off to the east, lost against grey cloud	PC
SN019	VP8	16/06/2020	07:55	Snipe	2	19	19				bogs; circled a couple of times drumming then dropped to bog. lost behind trees and bushes.	PC
SN020	VP8	16/06/2020	09:10	Snipe	1	36		36			bog woodland and bogs; brief drumming then travelled across viewshed. lost over woodland SW of VP.	PC
SN021	VP8	16/06/2020	09:11	Snipe	2	7		7			bog woodland and bogs; picked up in flight with wk004 but lost over woodland to SE of VP trying to follow both sightings., bord na mona men were working to SE of the VP so they may have flushed wk004 and sn005.	PC

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SN022	VP8	16/06/2020	10:50	Snipe	1						bogs; heard drumming but bird not visible	PC
SN004	VP9	22/06/2020	14:00	Snipe	1						cutover bog; chipping, heard only	DM
SN027	VP3	01/07/2020	08:02	Snipe	3	15		15			bogs and bog woodland; flew from west of VP, over VP then headed south towards VP4.	PC
SN028	VP4	02/07/2020	06:10	Snipe	1	357		357			bog woodland and bogs; circling over viewshed drumming. joined briefly by second bird behind VP in viewshed 5; that one dropped into vs5 leaving sn002 to carry on alone. eventually lost to north of VP.	PC
SN029	VP4	02/07/2020	06:16	Snipe	2	16	6	10			bog woodland and bogs; came from west behind VP. brief flight, one dropping immediately in front of VP, other lost in sky flying towards the sun.	PC
SN030	VP4	02/07/2020	06:20	Snipe	2	10	10				bog woodland and bogs; came from north of VP. one dropped in front of VP, other lost in sun. birds singing and calling on the ground in front of VP.	PC
SN031	VP4	02/07/2020	09:08	Snipe	1	7	7				bog woodland and bogs; sprang into the air from just north of VP and headed west, behind VP. direct, fast flight, gone from view very quickly.	PC
SN032	VP4	02/07/2020	10:00	Snipe	1	24	13	11			bog woodland and bogs; flew from behind VP, over viewshed then settled just north of VP.	PC
SN033	VP5	09/07/2020	06:21	Snipe	1	5	5				bogs and bog woodland; flew up from bog opposite VP, headed further back	PC

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											into bog and settled in scrub. barely had time to lift my binoculars.	
SN034	VP5	09/07/2020	07:16	Snipe	1	6	6				bogs and bog woodland; came out of bog opposite VP, settled briefly on bare peat next to drainage ditch then flew off west, behind scrub and bushes along ditch.	PC
SN035	VP5	09/07/2020	08:02	Snipe	1	6	6				bogs and bog woodland; another short flight from area next to ditch, across bog road and into scrub.	PC
SN036	VP5	09/07/2020	08:15	Snipe	1	41		41			bogs and bog woodland; bird drumming in flight from viewshed 4, brief excursion into viewshed 5 the headed east and dropped into viewshed 4.	PC
SN037	VP5	09/07/2020	09:43	Snipe	1	71	3	68			bogs and bog woodland; bird drumming in flight over viewshed 4, another brief excursion into viewshed 5 then dropped into viewshed 4 in similar spot to sn005. same bird?	PC
SN038	VP5	09/07/2020	11:29	Snipe	1	41	3	38			bogs and bog woodland; drumming in flight, flew into viewshed south of VP, presumably from viewshed 4 although I didn't see where it came from. landed in front of VP, second bird drumming on viewshed 4 but not seen.	PC
SN023	VP13	09/07/2020	15:03	Snipe	1	20	20				cutover bog; flushed from pool and landed on bog, not mapped	DM
SN024	VP15	13/07/2020	08:20	Snipe	1						cutover bog; chipping- heard only, not mapped	DM

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SN025	VP11	15/07/2020	09:20	Snipe	1						cutover bog; chipping- heard only, not mapped	DM
SN026	VP8	24/07/2020	14:05	Snipe	1	40		40			peatlands; in flight	ED
SN039	VP16	28/08/2020	18:24	Snipe	3	80	15	20	45		cutover bog and raised bog; 2 initially, calling low over bog, gained height, joined by 3rd bird after c.25 seconds, all dropped down at end of observation, max height c.50m	PT
SN043	VP16	10/09/2020	08:10	Snipe	2	49		49			bogs and bog woodland; travelled across viewshed calling, not sure where they came up from. lost against clouds.	PC
SN044	VP16	10/09/2020	10:21	Snipe	3	13	13				bogs and bog woodland; came up from near drainage ditch left of VP and flew in a northerly direction over VP and off of viewshed.	PC
SN040	VP14	16/09/2020	09:00	Snipe	2	200	10	40	150		cutover bog; travelling-landed on peat bog	DM
SN041	VP5	17/09/2020	10:32	Snipe	1	51	0	0	51	0	scrub; travelling and calling	DW
SN042	VP6	29/09/2020	10:01	Snipe	1	27	0	27	0	0	cutover bog; travelling and calling	DW
SN045	VP1	13/10/2020	13:34	Snipe	1	16	16	0	0	0	cutover bog; travelling	DW
SN050	VP11	13/10/2020	16:09	Snipe	1	25	0		20	5	cutover bog; travelling, calling while flying across the bog	KB
SN046	VP1	13/10/2020	19:06	Snipe	2	2	22	0	0	0	cutover bog; travelling low	DW
SN051	VP12	14/10/2020	17:33	Snipe	1	18	0	0	18	0	cutover bog, immature woodland and conifer plantation; travelling, calling while flying across the bog	KB
SN052	VP13	16/10/2020	12:57	Snipe	1	5	3	2	0	0	cutover bog, scrub and immature woodland; flushed by surveyor at VP, took up calling and landed	KB

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SN053	VP13	16/10/2020	12:57	Snipe	1	5	3	2	0	0	cutover bog, immature woodland and scrub; flushed by surveyor at VP, took up calling and landed	KB
SN054	VP13	16/10/2020	14:03	Snipe	1	6	6	0	0	0	cutover bog, immature woodland and scrub; flushed by surveyor at VP, took up calling and landed	KB
SN055	VP13	16/10/2020	17:50	Snipe	3	30	0	0	30	0	cutover bog, immature woodland and conifer plantation; travelling, flying together over site	KB
SN056	VP13	16/10/2020	19:05	Snipe	1	4	0	4	0	0	cutover bog; travelling, heard flight call NW of VP	KB
SN057	VP13	16/10/2020	19:07	Snipe	1	5	0	5	0	0	cutover bog; travelling, heard flight calls over head just north of VP	KB
SN058	VP13	16/10/2020	19:08	Snipe	1	3	0	3	0	0	cutover bog; travelling, heard flight calls just west of VP	KB
SN047	VP2	16/10/2020	19:09	Snipe	1	16	16	0	0	0	cutover bog; travelling and calling	DW
SN059	VP9	20/10/2020	14:44	Snipe	7	8	4	4	0	0	cutover bog, scrub and immature woodland; travelling, flock appeared in sky from the west travelling towards VP before veering southwards	KB
SN060	VP9	20/10/2020	14:44	Snipe	2	8	6	4	0	0	cutover bog, scrub and immature woodland; travelling, broke off from main flock (observation 2) and flew eastwards past VP	KB
SN061	VP9	20/10/2020	15:25	Snipe	1	70	5	15	50	0	cutover bog, scrub and immature woodland; travelling, undulating flight across bog, lost from view beyond treeline	KB
SN062	VP9	20/10/2020	18:47	Snipe	2	10		10	0	0	cutover bog, scrub and immature woodland; travelling, calling while flying across the bog	KB

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SN063	VP9	20/10/2020	18:50	Snipe	1	6	0	6	0	0	cutover bog, scrub and immature woodland; travelling	KB
SN064	VP7	21/10/2020	18:53	Snipe	1	8	0	8	0	0	cutover bog, scrub and immature woodland; travelling, calling while flying across the bog	KB
SN065	VP7	21/10/2020	19:01	Snipe	1	6	0	6	0	0	cutover bog, scrub and immature woodland; travelling, calling while flying across the bog	KB
SN066	VP7	21/10/2020	19:03	Snipe	1	4	0	4	0	0	cutover bog, scrub and immature woodland; travelling, calling while flying across the bog	KB
SN067	VP10	22/10/2020	18:50	Snipe	1	6	0	6	0	0	cutover bog and immature woodland; travelling	KB
SN048	VP3	23/10/2020	18:54	Snipe	1	22	0	22	0	0	cutover bog; travelling	DW
SN049	VP3	23/10/2020	18:55	Snipe	1	12	12	0	0	0	cutover bog; travelling, calling	DW
SN068	VP6	26/10/2020	17:45	Snipe	1	5	0	5	0	0	cutover bog; travelling	KB
SN069	VP6	26/10/2020	17:46	Snipe	1	10	0	10	0	0	cutover bog; travelling	KB
SN070	VP15	28/10/2020	17:41	Snipe	1	4	0	4	0	0	cutover bog; flying and calling	PW
SN071	VP15	28/10/2020	17:42	Snipe	1	12	0	12	0	0	cutover bog; flying	PW
SN072	VP14	29/10/2020	17:31	Snipe	1	5	5	0	0	0	raised bog; flying and calling, heard, not seen.	PW
SN073	VP14	29/10/2020	17:34	Snipe	1	7	0	7	0	0	raised bog; flying and calling	PW
SN074	VP4	03/11/2020	07:17	Snipe	1	22	22	0	0	0	cutover bog and scrub; travelling	DW
SN080	VP15	12/11/2020	07:50	Snipe	1	10	10	0	0	0	cutover bog; flushed at VP	KB
SN077	VP11	16/11/2020	08:03	Snipe	1	35	35	0	0	0	cutover bog; flushed from bog	DM
SN075	VP2	23/11/2020	08:50	Snipe	1	6	6	0	0	0	cutover bog and scrub; flushed by something	DW
SN078	VP6	25/11/2020	08:11	Snipe	1	45	45	0	0	0	cutover bog; flushed from bog	DM
SN079	VP13	26/11/2020	13:03	Snipe	1	10	10	0	0	0	bogs; flying, to W, in scrubby bog	JC

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SN076	VP1	27/11/2020	08:03	Snipe	1	5	5	0	0	0	cutover bog; flushed	DW
SN089	VP15	04/12/2020	16:54	Snipe	1	10	10	0	0	0	cutover bog; travelling	KB
SN090	VP15	04/12/2020	17:00	Snipe	1	8	8	0	0	0	cutover bog; travelling	KB
SN091	VP15	04/12/2020	17:02	Snipe	1	6	6	0	0	0	cutover bog; travelling	KB
SN092	VP16	07/12/2020	10:34	Snipe	1	10	10	0	0	0	cutover bog; flushed by surveyor at VP	KB
SN093	VP16	07/12/2020	11:28	Snipe	1	30	2	3	25	0	cutover bog; took up from bog, calling, travelling	KB
SN082	VP14	18/12/2020	10:40	Snipe	1	85	30	30	25	0	cutover bog; flushed from and landed on bog	DM
SN083	VP14	18/12/2020	10:42	Snipe	1	35	35	0	0	0	cutover bog; flushed from and landed on bog	DM
SN084	VP14	18/12/2020	12:25	Snipe	1	45	25	20	0	0	cutover bog; flushed from and landed on bog	DM
SN085	VP14	18/12/2020	12:26	Snipe	1	30	30	0	0	0	cutover bog; flushed from and landed on bog	DM
SN086	VP14	18/12/2020	12:28	Snipe	2	90	20	30	40	0	cutover bog; flushed from and landed on bog	DM
SN087	VP14	18/12/2020	13:02	Snipe	1	125	10	15	100	0	cutover bog; flushed from bog	DM
SN088	VP14	18/12/2020	14:24	Snipe	1	20	20	0	0	0	cutover bog; flushed from and landed on bog	DM
SN081	VP1	23/12/2020	17:06	Snipe	1	21	0	21	0	0	cutover bog; travelling	DW
SN096	VP7	05/01/2021	07:50	Snipe	1	30	30	0	0	0	cutover bog; travelling, flushed from bog and landed again	DM
SN097	VP14	06/01/2021	14:21	Snipe	1	25	25	0	0	0	cutover bog; flushed, bog drain	DM
SN094	VP1	28/01/2021	07:26	Snipe	1	20	0	20	0	0	cutover bog and conifer plantation; travelling	DW
SN095	VP1	28/01/2021	07:30	Snipe	1	22	0	22	0	0	cutover bog, scrub and improved agricultural grassland; travelling	DW
SN098	VP7	04/02/2021	18:05	Snipe	3	35	0	0	35	0	cutover bog; travelling	DW

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SN099	VP5	08/02/2021	18:00	Snipe	3	35	5	5	25	0	cutover bog and scrub; travelling	DW
SN104	VP13	16/02/2021	18:16	Snipe	2	15	15	0	0		cutover bog; travelling	KB
SN105	VP13	16/02/2021	18:18	Snipe	14	18	0	18	0		cutover bog; travelling	KB
SN106	VP13	16/02/2021	18:19	Snipe	2	6	0	6	0		cutover bog; travelling	KB
SN107	VP13	16/02/2021	18:19	Snipe	2	12	0	12	0		cutover bog; travelling	KB
SN108	VP13	16/02/2021	18:20	Snipe	2	10	0	10	0		cutover bog; travelling	KB
SN109	VP13	16/02/2021	18:22	Snipe	1	8	8	0	0		cutover bog; travelling	KB
SN100	VP3	17/02/2021	13:01	Snipe	3	12	12	0	0	0	cutover bog; landing in heather	DW
SN102	VP9	18/02/2021	13:18	Snipe	1	35	35	0	0	0	cutover bog; travelling, landed on bog	DM
SN110	VP14	18/02/2021	15:52	Snipe	1	15	15	0	0		cutover bog; flushed, flushed by BnM digger. landed back down on bog	KB
SN103	VP9	18/02/2021	15:56	Snipe	1	65	5	10	50	0	cutover bog; travelling, landed on bog	DM
SN111	VP15	24/02/2021	18:23	Snipe	1	6	0	6	0		cutover bog; travelling	KB
SN112	VP15	24/02/2021	18:31	Snipe	1	8	0	8	0		cutover bog; travelling	KB
SN113	VP15	24/02/2021	18:44	Snipe	1	10	0	10	0		cutover bog; travelling	KB
SN101	VP8	24/02/2021	18:27	Snipe	2	30	0	0	30	0	cutover bog; travelling, calling	DW
SN114	VP16	26/02/2021	17:02	Snipe	1	10	2	3	5	0	cutover bog; flushed at VP	KB
SN118	VP4	11/03/2021	06:10	Snipe	1	20	0	20	0	0	cutover bog and scrub; travelling, calling	DW
SN119	VP8	18/03/2021	05:48	Snipe	2	15	0	15	0	0	cutover bog and scrub; travelling, calling	DW
SN115	VP15	19/03/2021	05:33	Snipe	1	10	0	10	0	0	cutover bog; travelling	KB
SN116	VP15	19/03/2021	05:35	Snipe	1	8	0	8	0	0	cutover bog; travelling	KB
SN117	VP15	19/03/2021	05:38	Snipe	1	12	0	12	0	0	cutover bog; travelling	KB
SN120	VP13	23/03/2021	06:13	Snipe	4	20	20	0	0	0	cutover bog; bursting from hiding place within bog, alarm calling	NM

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SN121	VP9	29/03/2021	10:53	Snipe	5	20	5	15	0	0	wet grassland and scrub; bursting from wetland pool complex, flying frantically NW	NM
SN164	VP5	07/04/2021	16:11	Snipe	1	35	35	0	0	0	cutover bog; flushed from bog	DM
SN165	VP9	09/04/2021	20:49	Snipe	2	90	10	20	60	0	cutover bog; left bog to feed	DM
SN166	VP13	14/04/2021	19:05	Snipe	2	140	2	33	105	0	cutover bog; travelling - dropped down onto bog	KB
SN167	VP13	14/04/2021	20:50	Snipe	1	30	0	30	0	0	cutover bog; travelling	KB
SN168	VP13	14/04/2021	20:51	Snipe	1	50	10	40	0	0	cutover bog; travelling	KB
SN169	VP13	14/04/2021	20:52	Snipe	1	40	0	40	0	0	cutover bog; travelling	KB
SN170	VP13	14/04/2021	20:55	Snipe	1	60	0	60	0	0	cutover bog; travelling	KB
SN171	VP14	15/04/2021	19:28	Snipe	1	6	6	0	0	0	cutover bog; travelling - dropped down onto bog	KB
SN172	VP12	16/04/2021	21:10	Snipe	1	60	0	60	0	0	cutover bog; drumming	KB
SN173	VP16	21/04/2021	20:45	Snipe	3	30	0	0	30	0	cutover bog; traveling	KB
SN174	VP16	21/04/2021	05:47	Snipe	1	12	0	12	0	0	cutover bog; travelling	KB
SN175	VP3	20/05/2021	08:15	Snipe	1	45	45	0	0	0	cutover bog; travelling	DM
SN176	VP3	20/05/2021	08:33	Snipe	2	25	25	0	0	0	cutover bog; travelling, landed on bog	DM
SN177	VP3	20/05/2021	10:05	Snipe	1	75	20	30	25	0	cutover bog; travelling, landed on bog	DM
SN178	VP3	20/05/2021	10:32	Snipe	1	70	20	20	30	0	cutover bog; display flight	DM
SN179	VP15	21/05/2021	10:00	Snipe	1	20	5	15	0	0	cutover bog; travelling	KB
SN180	VP4	25/05/2021	10:18	Snipe	1	65	10	20	35	0	cutover bog; drumming, display flight	DM
SN181	VP5	29/05/2021	06:58	Snipe	1	100	10	10	80	0	cutover bog; drumming, landed on bog	DM
SN182	VP5	29/05/2021	07:05	Snipe	1	200	5	10	185	0	cutover bog; drumming, landed on bog	DM
SN183	VP4	22/06/2021	18:11	Snipe	1	15	5	10	0	0	scrub and cutover bog; flying and calling, male SN flying and calling	SI

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SN184	VP3	23/06/2021	14:33	Snipe	1	4	0	4	0	0	cutover bog; flying, flew over VP, not mapped	SI
SN185	VP4	12/07/2021	19:15	Snipe	2	15	15	0	0	0	cutover bog; pair flying in close formation and landed in the bog. heard calling loudly., possible breeding pair. unable to relocate them as they landed in dense heath.	CR
SN186	VP15	13/07/2021	10:43	Snipe	1	5	5	0	0	0	scrub; calling/flying	AR
SN187	VP8	15/07/2021	18:32	Snipe	1	5	5	0	0	0	bogs; calling/flying, short flight calling	AR
SN188	VP5	15/07/2021	17:45	Snipe	1	10	10	0	0	0	cutover bog; landed in the bog in front of VP5. heard calling.	CR
SN189	VP4	12/08/2021	10:08	Snipe	1	110	5	105	0	0	cutover bog; flying., observed heading west. heard calling.	CR
SN190	VP3	08/09/2021	15:38	Snipe	10	146	8	138	0	0	cutover bog and mixed broadleaved/conifer woodland; flying, flock of 10 snipe observed flying in formation. last seen heading northwest.	CR
SN191	VP5	15/09/2021	19:32	Snipe	2	36	10	26	0	0	cutover bog; flying, snipe pair flushed by dirt bikers. last seen heading north.	CR
SN192	VP8	21/09/2021	18:28	Snipe	1	86	0	0	86	0	cutover bog and bog woodland; flying, last seen heading west.	CR
SN193	VP16	25/09/2021	20:02	Snipe	2	20	0	20	0	0	bogs; travelling	DW
SN232	VP2	11/10/2021	11:21	Snipe	1	31	0	0	31	0	bogs; travelling/calling	JM
SN233	VP13	13/10/2021	06:53	Snipe	2	10	10	0	0	0	cutover bog; flushed, calling	KS
SN234	VP13	13/10/2021	09:49	Snipe	1	20	20	0	0	0	cutover bog and scrub; travelling, calling	KS
SN235	VP3	13/10/2021	11:12	Snipe	3	100	0	0	100	0	bogs; travelling	JM
SN236	VP3	13/10/2021	11:33	Snipe	1	10	0	0	10	0	bogs; travelling	JM

Vantage Point Surveys												
Map 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
SN237	VP14	14/10/2021	06:58	Snipe	6	10	10	0	0	0	cutover bog, dry siliceous heath and dry calcareous and neutral grassland; flushed	KS
SN238	VP15	15/10/2021	06:56	Snipe	1	30	30	0	0	0	cutover bog and dry siliceous heath; circling, calling low to ground	KS
SN239	VP16	19/10/2021	07:13	Snipe	6	5	5	0	0	0	cutover bog; calling, not seen	KS
SN240	VP16	19/10/2021	12:09	Snipe	1	5	5	0	0	0	cutover bog; flushed	KS
SN241	VP5	03/11/2021	17:35	Snipe	1	5	5	0	5	0	bogs; travelling/calling	JM
SN242	VP8	10/11/2021	16:06	Snipe	1	40	0	40	40	0	cutover bog; travelling	KB
SN243	VP8	10/11/2021	17:22	Snipe	2	30	0	0	0	0	cutover bog; travelling	KB
SN244	VP8	10/11/2021	17:26	Snipe	1	20	0	20	20	0	cutover bog; travelling	KB
SN245	VP8	10/11/2021	17:30	Snipe	2	40	0	0	0	0	cutover bog; travelling	KB
SN246	VP15	12/11/2021	17:24	Snipe	2	20	20	0	20	0	cutover bog; flushed	KS
SN247	VP16	18/11/2021	17:05	Snipe	1	10	10	0	10	0	cutover bog and bog woodland; travelling, calling from behind	KS
SN248	VP7	19/11/2021	10:50	Snipe	1	7	7	0	7	0	cutover bog; flushed at VP	KB
SN249	VP3	02/12/2021	09:19	Snipe	1	31	20	11	31	0	bogs; travelling	JM
SN250	VP4	03/12/2021	11:16	Snipe	1	21	6	15	21	0	bogs; travelling	JM
SN251	VP1	06/12/2021	09:46	Snipe	1	14	2	12	14	0	bogs; travelling/calling	JM
SN252	VP10	10/12/2021	07:46	Snipe	1	10	0	10	10	0	cutover bog; travelling	KB
SN253	VP14	15/12/2021	07:28	Snipe	2	10	10	0	10	0	cutover bog; calling	KS
SN254	VP15	17/12/2021	07:47	Snipe	1	10	10	0	10	0	cutover bog and dry calcareous and neutral grassland; flushed	KS
SN255	VP16	23/12/2021	07:44	Snipe	4	30	30	0	30	0	cutover bog; flushed	KS
SN256	VP1	07/01/2022	13:18	Snipe	5	82	0	0	0	0	bogs; travelling	JM
SN257	VP4	10/01/2022	17:18	Snipe	2	10	10	0	10	0	bogs; calling, visibility low	JM
SN258	VP16	01/02/2022	17:45	Snipe	2	10	10	0	10	0	cutover bog; calling	KS

Vantage Point Surveys												
Map 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
SN259	VP14	04/02/2022	07:40	Snipe	4	30	30	0	30	0	cutover bog; flushed, calling	KS
SN260	VP15	14/02/2022	06:54	Snipe	2	15	15	0	15	0	cutover bog; flushed	KS
SN261	VP11	16/02/2022	06:54	Snipe	1	15	15	0	15	0	cutover bog; flying and calling	EH
SN262	VP9	16/03/2022	19:12	Snipe	1	10	10	0	10	0	cutover bog; travelling	KB
SN263	VP9	16/03/2022	19:12	Snipe	1	20	10	10	20	0	cutover bog and immature woodland; travelling	KB
SN264	VP9	16/03/2022	19:13	Snipe	2	10	2	8	10	0	cutover bog; travelling	KB
SN265	VP9	16/03/2022	19:14	Snipe	1	6	4	2	6	0	cutover bog; travelling	KB
SN266	VP11	17/03/2022	15:52	Snipe	1	30	0	0	0	0	cutover bog and immature woodland; travelling	KB
SN267	VP11	17/03/2022	19:09	Snipe	1	130	10	5	15	0	cutover bog and scrub; drumming	KB
SN268	VP11	17/03/2022	19:20	Snipe	1	15	0	15	15	0	cutover bog and immature woodland; travelling	KB
SN269	VP8	25/03/2022	19:05	Snipe	1	8	8	0	8	0	cutover bog; travelling, flushed by quad	NM
SN270	VP15	29/03/2022	20:30	Snipe	4	60	60	0	60	0	cutover bog; drumming	KS
SN271	VP10	30/03/2022	20:31	Snipe	1	20	0	20	20	0	cutover bog; travelling	KB
SN272	VP10	30/03/2022	20:31	Snipe	1	15	0	15	15	0	cutover bog; travelling	KB
SN273	VP10	30/03/2022	20:38	Snipe	1	10	0	0	0	0	cutover bog; travelling	KB
SN274	VP16	30/03/2022	20:47	Snipe	1	5	5	0	5	0	cutover bog; calling	KS
SN275	VP14	04/05/2022	21:36	Snipe	2	20	20	0	20	0	cutover bog; drumming	KS
SN276	VP7	30/05/2022	19:58	Snipe	1	20	0	20	20	0	cutover bog; drumming	KS
SN277	VP9	01/06/2022	20:02	Snipe	2	450	450	0	450	0	cutover bog; drumming, continuously throughout survey	KS
SN278	VP4	13/06/2022	20:17	Snipe	1	19	2	4	6	0	cutover bog; travelling	NM
SN279	VP14	16/06/2022	20:50	Snipe	1	20	10	10	20	0	cutover bog and scrub; flying/landed	EF
SN280	VP9	07/07/2022	17:29	Snipe	1	24	2	22	24	0	bogs; flushed flight	NM

Vantage Point Surveys												
Map 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
SN281	VP16	19/07/2022	09:54	Snipe	1	10	10	0	10	0	cutover bog; chipping	KS
SN282	VP16	02/09/2022	13:20	Snipe	1	60	0	0	0	0	cutover bog; circling	KS
SN283	VP14	07/09/2022	14:48	Snipe	1	30	0	30	30	0	cutover bog; circling	KS
SN284	VP14	15/09/2022	06:07	Snipe	1	0	0	0	0	0	cutover bog; call	KS
SN285	VP16	20/09/2022	08:03	Snipe	1	15	0	0	0	0	cutover bog; calling	KS
SN286	VP15	20/09/2022	10:31	Snipe	1	20	0	20	20	0	cutover bog; calling	KS
SN287	VP15	22/09/2022	19:54	Snipe	1	10	10	0	10	0	cutover bog; calling	KS
SN288	VP15	22/09/2022	20:14	Snipe	1	10	10	0	10	0	cutover bog; flushed	KS
SN289	VP16	23/09/2022	17:56	Snipe	1	35	0	35	35	0	cutover bog; circling	KS
SN290	VP16	23/09/2022	18:05	Snipe	1	20	20	0	20	0	cutover bog; travelling	KS
SN291	VP5	29/09/2022	13:30	Snipe	1	5	5	0	5	0	heath and scrub; direct flight, lost behind scrub	EF
SN292	VP4	04/10/2022	10:15	Snipe	1	30	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; circling	KS

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
SN122	VP1	27/08/2020	18:40	Snipe	1	raised bog; calling	PM
SN123	VP7	10/09/2020	06:10	Snipe	1	cutover bog; calling-heard only	DM
SN124	VP13	15/09/2020	08:15	Snipe	1	cutover bog; calling-heard only	DM
SN125	VP13	15/09/2020	10:41	Snipe	1	cutover bog; calling-heard only	DM
SN126	VP9	17/09/2020	06:40	Snipe		cutover bog; calling-heard only	DM
SN127	VP12	18/09/2020	06:20	Snipe	1	cutover bog; calling-heard only, not mapped	DM
SN128	VP12	18/09/2020	06:24	Snipe	2	cutover bog; calling-heard only, not mapped	DM

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
SN129	VP12	18/09/2020	07:32	Snipe	1	cutover bog; calling-heard only, not mapped	DM
SN130	VP5	17/09/2020	08:21	Snipe	1	drainage ditches; calling	DW
SN131	VP4	22/09/2020	07:10	Snipe	1	cutover bog; calling	DW
SN132	VP5	08/10/2020	18:48	Snipe	1	cutover bog; calling	DW
SN133	VP7	02/11/2020	07:57	Snipe	1	cutover bog; calling, heard only	DM
SN134	VP9	10/11/2020	06:50	Snipe	1	cutover bog; calling, heard only	DM
SN135	VP9	10/11/2020	08:28	Snipe	1	cutover bog; calling, heard only	DM
SN136	VP11	08/12/2020	16:52	Snipe	1	cutover bog; heard only, leaving bog to feed	DM
SN137	VP11	08/12/2020	16:57	Snipe	1	cutover bog; heard only, leaving bog to feed	DM
SN138	VP13	15/12/2020	16:52	Snipe	6	cutover bog; calling-heard only, three locations	DM
SN139	VP4	15/02/2021	18:15	Snipe	1	cutover bog; drumming	DW
SN140	VP8	24/02/2021	18:36	Snipe	1	cutover bog and mixed broadleaved woodland; drumming, 1of2 SN heard	DW
SN141	VP8	24/02/2021	18:42	Snipe	1	cutover bog; drumming, 2of2 SN heard	DW
SN142	VP9	18/02/2021	18:19	Snipe	4	cutover bog; calling, heard only	DM
SN143	VP10	25/02/2021	18:48	Snipe	1	cutover bog; calling, heard only	DM
SN144	VP13	16/02/2021	18:26	Snipe	1	immature woodland; chipping	KB
SN145	VP15	24/02/2021	18:32	Snipe	2	cutover bog; calling on ground	KB
SN146	VP14	17/03/2021	05:42	Snipe	1	cutover bog; chipping	KB
SN147	VP14	17/03/2021	05:49	Snipe	1	cutover bog; drumming	KB
SN148	VP15	19/03/2021	05:32	Snipe	2	cutover bog; chipping	KB
SN149	VP5	03/03/2021	06:13	Snipe	1	cutover bog; drumming, 1of3 SN drumming	DW
SN150	VP5	03/03/2021	06:04	Snipe	1	cutover bog; drumming, 2of3 SN drumming	DW
SN151	VP5	03/03/2021	06:20	Snipe	1	cutover bog and scrub; drumming, 3of3 SN drumming	DW
SN152	VP7	09/03/2021	06:16	Snipe	1	cutover bog and scrub; drumming	DW

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
SN153	VP4	11/03/2021	05:55	Snipe	1	cutover bog; drumming	DW
SN154	VP4	11/03/2021	06:00	Snipe	1	cutover bog and scrub; drumming	DW
SN155	VP8	18/03/2021	05:25	Snipe	1	cutover bog; drumming	DW
SN156	VP8	18/03/2021	05:40	Snipe	1	cutover bog and scrub; drumming	DW
SN157	VP13	23/03/2021	05:31	Snipe	2	cutover bog; display calling in grass at edge of bare peat cutover bog	NM
SN158	VP13	23/03/2021	05:37	Snipe	3	cutover bog; display calling, whoosh of display flights also heard	NM
SN159	VP13	23/03/2021	05:41	Snipe	3	cutover bog; alarm calling from within cutover bog	NM
SN160	VP13	23/03/2021	05:45	Snipe	2	raised bog and scrub; display calling within heather scrub	NM
SN161	VP13	23/03/2021	05:47	Snipe	6	raised bog and scrub; display calling and display flights	NM
SN162	VP9	29/03/2021	12:38	Snipe	2	wet grassland; within wet grassland	NM
SN163	VP12	20/03/2021	05:39	Snipe	2	cutover bog; display calling within bog, whooshing sound heard overhead at one stage indicating a display flight, heading roughly S but difficult to determine in the pre-dawn	NM
SN194	VP5	07/04/2021	18:40	Snipe	1	cutover bog; calling, heard only	DM
SN195	VP5	07/04/2021	18:45	Snipe	1	cutover bog; chipping, heard only	DM
SN196	VP5	07/04/2021	18:49	Snipe	1	cutover bog; drumming, heard only	DM
SN197	VP1	08/04/2021	20:38	Snipe	1	cutover bog; calling, heard only	DM
SN198	VP1	08/04/2021	20:49	Snipe	1	cutover bog and improved agricultural grassland; calling, heard only	DM
SN199	VP9	09/04/2021	20:34	Snipe	2	cutover bog; calling, leaving bog to feed	DM
SN200	VP9	09/04/2021	20:54	Snipe	1	cutover bog; calling, leaving bog to feed	DM
SN201	VP9	09/04/2021	21:00	Snipe	3	cutover bog; calling, leaving bog to feed	DM
SN202	VP9	09/04/2021	21:05	Snipe	1	cutover bog; drumming, heard only	DM
SN203	VP13	14/04/2021	19:08	Snipe	1	cutover bog; calling on ground	KB

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
SN204	VP13	14/04/2021	20:56	Snipe	1	cutover bog; chipping	KB
SN205	VP14	15/04/2021	18:34	Snipe	1	cutover bog; chipping	KB
SN206	VP14	15/04/2021	19:49	Snipe	1	cutover bog; chipping	KB
SN207	VP12	16/04/2021	21:28	Snipe	1	cutover bog; chipping	KB
SN208	VP4	19/04/2021	21:17	Snipe	1	cutover bog; drumming, heard only	DM
SN209	VP4	19/04/2021	21:25	Snipe	1	cutover bog; calling, heard only	DM
SN210	VP7	20/04/2021	21:02	Snipe	1	cutover bog; chipping, heard only	DM
SN211	VP16	21/04/2021	19:47	Snipe	1	cutover bog; calling on ground	KB
SN212	VP16	21/04/2021	19:52	Snipe	1	cutover bog; calling on ground	KB
SN213	VP6	21/04/2021	20:18	Snipe	1	cutover bog; calling, heard only	DM
SN214	VP6	21/04/2021	21:04	Snipe	1	cutover bog; calling, heard only	DM
SN215	VP3	22/04/2021	21:30	Snipe	1	cutover bog; drumming, heard only	DM
SN216	VP8	17/05/2021	06:15	Snipe	1	cutover bog; chipping, heard only	DM
SN217	VP5	29/05/2021	06:31	Snipe	1	cutover bog; drumming, heard only	DM
SN218	VP5	29/05/2021	06:44	Snipe	1	cutover bog; drumming, heard only	DM
SN219	VP5	29/05/2021	08:43	Snipe	1	cutover bog; chipping, heard only	DM
SN220	VP5	29/05/2021	09:23	Snipe	1	cutover bog; drumming, heard only	DM
SN221	VP1	16/06/2021	13:02	Snipe	1	lowland blanket bog; calling, SN heard calling to the south of VP	SI
SN222	VP2	17/06/2021	13:27	Snipe	2	lowland blanket bog; drumming, SN heard drumming to the south of VP	SI
SN223	VP4	22/06/2021	17:37	Snipe	1	scrub and cutover bog; drumming, drumming male heard behind VP	SI
SN224	VP4	22/06/2021	18:39	Snipe	1	scrub and cutover bog; drumming, possibly same bird as above	SI
SN225	VP4	23/06/2021	11:53	Snipe	1	scrub and cutover bog; chipping, heard chipping behind VP	SI

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
SN226	VP5	23/06/2021	17:14	Snipe	1	scrub and wet grassland; drumming, SN heard drumming in ws1/gs4 near VP	SI
SN227	VP4	13/09/2021	14:49	Snipe	1	cutover bog; calling, snipe heard calling for 2 minutes.	CR
SN228	VP4	13/09/2021	15:16	Snipe	1	cutover bog; calling, snipe heard calling for 40 seconds	CR
SN229	VP4	14/09/2021	18:09	Snipe	1	cutover bog; calling	CR
SN230	VP5	15/09/2021	18:32	Snipe	1	cutover bog; calling, calling for 15 seconds.	CR
SN231	VP8	21/09/2021	20:06	Snipe	1	cutover bog; calling, heard calling for 10 seconds	CR
SN293	VP2	11/10/2021	09:33	Snipe	1	bogs; calling, heard calling only	JM
SN294	VP4	14/10/2021	07:01	Snipe	1	dry siliceous heath; calling from ground	KS
SN295	VP4	14/10/2021	07:10	Snipe	1	bogs; calling	JM
SN296	VP4	14/10/2021	11:14	Snipe	1	bogs; calling	JM
SN297	VP1	20/10/2021	07:11	Snipe	2	bogs; calling, not seen	JM
SN298	VP3	08/11/2021	17:42	Snipe	4	bogs; calling, not seen, heard calling	JM
SN299	VP1	09/11/2021	17:15	Snipe	2	bogs; calling, not seen	JM
SN300	VP4	10/11/2021	12:11	Snipe	1	bogs, marsh and bog woodland; calling	JM
SN301	VP4	10/11/2021	17:34	Snipe	2	bogs; calling, not seen due to darkness but flying and calling	JM
SN302	VP13	27/11/2021	17:05	Snipe	1	cutover bog; calling	TS
SN303	VP1	06/12/2021	07:34	Snipe	1	bogs; calling, not seen, vis poor	JM
SN304	VP13	14/03/2022	19:15	Snipe	2	cutover bog; calling drumming	TS
SN305	VP11	17/03/2022	16:04	Snipe	1	cutover bog; chipping	KB
SN306	VP11	17/03/2022	19:10	Snipe	1	scrub; chipping	KB
SN307	VP10	30/03/2022	20:03	Snipe	1	cutover bog; calling on ground	KB
SN308	VP5	05/04/2022	06:52	Snipe	1	bogs and scrub; chipping/calling, present throughout survey	JM
SN309	VP15	23/04/2022	05:15	Snipe	1	cutover bog; chipping, heard only	DM

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
SN310	VP5	10/05/2022	22:00	Snipe	1	heath; drumming, not the same bird that is calling	EF
SN311	VP5	10/05/2022	22:00	Snipe	1	heath; calling, from the ground	EF

Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SN001	22/04/2020	10:33	Snipe	1	cutover bog; flushed	PT
SN002	22/04/2020	12:13	Snipe	1	cutover bog; flushed, dropped back to cutover	PT
SN003	27/04/2020	14:34	Snipe	1	cutover bog; chipping, not seen	PT
SN004	28/04/2020	08:06	Snipe	1	cutover bog; flushed	PT
SN005	28/04/2020	09:10	Snipe	1	cutover bog; display flight, chipping	PT
SN006	11/05/2020	19:40	Snipe	1	cutover bog; chipping from ground/perch (not seen)	PT
SN007	15/05/2020	10:09	Snipe	1	cutover bog; brief view, dropping to damp bog with wings raised in display mode	PT
SN008	20/05/2020	12:44	Snipe	2	cutover bog; flushed from wet cotton grass bed	PT
SN009	09/06/2020	07:27	Snipe	1	cutover bog; chipping (perched?)	PT
SN010	09/06/2020	07:52	Snipe	1	cutover bog; flushed from cotton grass	PT
SN011	09/06/2020	07:53	Snipe	1	cutover bog and raised bog; possibly same bird as previous sighting, prolonged drumming flight, dropped down at end of flight	PT
SN012	09/06/2020	07:55	Snipe	2	cutover bog; came up when previous bird flew over their territory	PT
SN013	09/06/2020	09:10	Snipe	1	cutover bog; chipping from cotton grass bed	PT
SN014	20/06/2020	09:27	Snipe	1	cutover bog; chipping on ground/perch, heard only	PT
SN015	24/06/2020	14:53	Snipe	1	raised bog; flushed from damp bog, dropped down to cutover	PT
SN016	24/06/2020	17:44	Snipe	1	cutover bog; flying, flushed from Calluna	PT

Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SN017	24/06/2020	18:01	Snipe	1	cutover bog; drumming	PT
SN018	25/06/2020	07:02	Snipe	1	cutover bog; drumming	PT
SN019	25/06/2020	07:02	Snipe	1	cutover bog; drumming; dropped to cutover	PT
SN020	01/07/2020	17:15	Snipe	1	cutover bog; prolonged drumming	PT
SN021	01/07/2020	17:40	Snipe	1	cutover bog; drumming	PT
SN022	01/07/2020	17:40	Snipe	1	cutover bog; drumming, dropped down	PT
SN023	10/07/2020	18:45	Snipe	1	cutover bog and scrub/transitional woodland; drumming twice briefly	PT
SN024	10/07/2020	18:55	Snipe	1	cutover bog; drumming, dropped down	PT
SN025	11/07/2020	06:57	Snipe	1	cutover bog; drumming	PT
SN026	11/07/2020	07:07	Snipe	1	drainage ditches and cutover bog; drumming	PT
SN027	11/07/2020	13:16	Snipe	1	cutover bog; chipping in flight as it dropped to wet bog	PT
SN028	11/07/2020	13:16	Snipe	1	cutover bog and bog woodland; chipping calls; different bird to obs.no.31	PT
SN029	15/07/2020	13:42	Snipe	1	lakes and ponds; on ground in wet area, chipping calls	PT
SN030	16/07/2020	08:31	Snipe	1	lakes and ponds; chipping calls	PT
SN031	16/07/2020	09:18	Snipe	1	grassland and marsh and cutover bog; drumming flight after flying up from its rock, same bird as obs.no.43	PT
SN032	16/07/2020	09:19	Snipe	2	cutover bog; one flying low, rose up to join second bird; prolonged high flight together	PT
SN033	16/07/2020	09:23	Snipe	1	improved agricultural grassland and bog woodland; drumming	PT
SN034	16/07/2020	09:23	Snipe	1	drainage ditches; chipping calls in flight, simultaneously with obs.no.49; third bird chipping on ground.	PT
SN035	16/07/2020	09:24	Snipe	1		PT
SN036	01/04/2021	09:50	Snipe	1	cutover bog; flushed (suitable nesting habitat; possible breeder)	DW
SN037	01/04/2021	10:19	Snipe	1	cutover bog; flushed (suitable nesting habitat; possible breeder)	DW
SN038	01/04/2021	12:01	Snipe	1	cutover bog and scrub; flushed (suitable nesting habitat; possible breeder)	DW

Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SN039	01/04/2021	12:05	Snipe	1	cutover bog and scrub; flushed (suitable nesting habitat; possible breeder)	DW
SN040	01/04/2021	12:16	Snipe	1	cutover bog; flushed (suitable nesting habitat; possible breeder)	DW
SN041	01/04/2021	12:20	Snipe	1	cutover bog; flushed, flushed from area of shallow pools (suitable nesting habitat; possible breeder)	DW
SN042	01/04/2021	12:42	Snipe	10	#N/A	DW
SN043	01/04/2021	15:20	Snipe	1	cutover bog; flushed (suitable nesting habitat; possible breeder)	DW
SN044	05/04/2021	14:51	Snipe	2	cutover bog and drainage ditches; flushed (pair; probable breeding)	DW
SN045	13/04/2021	10:42	Snipe	1	cutover bog; flushed (suitable nesting habitat; possible breeder)	DW
SN046	14/04/2021	12:26	Snipe	1	cutover bog; flushed (suitable nesting habitat; possible breeder)	DW
SN047	14/04/2021	14:16	Snipe	1	cutover bog; flushed (suitable nesting habitat; possible breeder)	DW
SN048	05/05/2021	13:28	Snipe	4	cutover bog; flushed, flushed from pond/flooded area (suitable nesting habitat; possible breeder)	DW
SN049	04/06/2021	16:05	Snipe	2	upland blanket bog; flushed (pair; probable breeding)	DW
SN050	14/07/2021	17:47	Snipe	1	cutover bog; flushed (suitable nesting habitat; possible breeder)	DW
SN051	25/05/2022	07:43	Snipe	1	scrub and cutover bog; flushed flight (summering; non-breeding)	NM
SN052	03/06/2022	15:20	Snipe	1	cutover bog; flushed flight (suitable nesting habitat; possible breeder)	NM
SN053	17/06/2022	14:12	Snipe	1	cutover bog and watercourses; flushed flight (suitable nesting habitat; possible breeder)	NM
SN054	29/06/2022	15:21	Snipe	1	cutover bog; flushed flight (suitable nesting habitat; possible breeder)	NM
SN055	04/08/2022	16:11	Snipe	1	cutover bog; flushed flight (suitable nesting habitat; possible breeder)	NM

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SN015	22/10/2020	09:02	Snipe	1	bogs; flushed,	JC
SN016	22/10/2020	10:25	Snipe	2	bogs; flushed,	JC
SN017	22/10/2020	10:54	Snipe	1	bogs; flushed,	JC
SN018	22/10/2020	11:10	Snipe	1	bogs; flushed,	JC
SN019	22/10/2020	11:15	Snipe	1	bogs; flushed,	JC
SN020	22/10/2020	12:37	Snipe	1	bogs; flushed,	JC
SN021	22/10/2020	12:39	Snipe	2	bogs; flushed,	JC
SN022	22/10/2020	12:46	Snipe	2	bogs; flushed,	JC
SN023	22/10/2020	12:48	Snipe	2	bogs; flushed,	JC
SN024	22/10/2020	13:00	Snipe	3	bogs; flushed,	JC
SN025	22/10/2020	13:14	Snipe	1	conifer plantation; flushed,	JC
SN026	22/10/2020	13:30	Snipe	1	bogs; flushed,	JC
SN027	22/10/2020	13:34	Snipe	1	bogs; flushed,	JC
SN028	22/10/2020	13:58	Snipe	1	bogs; flushed,	JC
SN029	22/10/2020	14:12	Snipe	4	bogs; flushed,	JC
SN030	22/10/2020	15:53	Snipe	1	bogs; flushed,	JC
SN031	23/10/2020	10:09	Snipe	1	bogs; flushed,	JC
SN032	23/10/2020	10:10	Snipe	1	conifer plantation; flushed,	JC
SN033	23/10/2020	10:15	Snipe	1	bogs; flushed,	JC
SN034	23/10/2020	10:29	Snipe	1	bogs; flushed,	JC
SN035	23/10/2020	14:34	Snipe	4	bogs; flushed,	JC
SN036	23/10/2020	14:36	Snipe	1	bogs; flushed,	JC
SN037	23/10/2020	14:39	Snipe	2	bogs; flushed,	JC
SN038	23/10/2020	14:44	Snipe	3	bogs; flushed,	JC
SN039	23/10/2020	14:52	Snipe	3	bogs; flushed,	JC

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SN040	23/10/2020	16:06	Snipe	1	bogs; flushed,	JC
SN041	13/01/2021	09:38	Snipe	1	cutover bog and scrub; flushed,	DW
SN042	13/01/2021	09:41	Snipe	1	cutover bog and scrub; flushed,	DW
SN044	13/01/2021	11:30	Snipe	1	cutover bog; flushed,	DW
SN045	13/01/2021	11:32	Snipe	1	cutover bog; flushed,	DW
SN043	13/01/2021	11:50	Snipe	1	cutover bog; flushed,	DW
SN046	13/01/2021	13:05	Snipe	1	cutover bog; flushed,	DW
SN047	13/01/2021	13:16	Snipe	1	cutover bog; flushed,	DW
SN048	13/01/2021	13:22	Snipe	1	cutover bog; flushed,	DW
SN049	13/01/2021	14:01	Snipe	1	cutover bog; flushed,	DW
SN050	13/01/2021	14:08	Snipe	1	cutover bog; flushed,	DW
SN051	13/01/2021	14:11	Snipe	1	cutover bog; flushed,	DW
SN052	13/01/2021	14:18	Snipe	1	cutover bog; flushed,	DW
SN053	13/01/2021	14:40	Snipe	1	cutover bog; flushed,	DW
SN054	14/01/2021	09:42	Snipe	1	cutover bog; flushed,	DW
SN055	14/01/2021	09:52	Snipe	1	cutover bog; flushed,	DW
SN056	14/01/2021	14:41	Snipe	1	cutover bog and scrub; flushed,	DW
SN057	14/01/2021	15:01	Snipe	1	cutover bog; flushed,	DW
SN058	14/01/2021	15:06	Snipe	1	cutover bog; flushed,	DW
SN059	17/02/2021	09:10	Snipe	2	raised bog; flushed	PT
SN060	17/02/2021	09:25	Snipe	1	raised bog; flushed	PT
SN061	17/02/2021	10:56	Snipe	1	raised bog; flushed	PT
SN062	17/02/2021	10:56	Snipe	1	raised bog; flushed	PT
SN063	17/02/2021	10:58	Snipe	1	raised bog; flushed	PT
SN064	17/02/2021	11:00	Snipe	1	raised bog; flushed	PT

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SN065	17/02/2021	11:03	Snipe	2	raised bog; flushed	PT
SN066	17/02/2021	11:11	Snipe	1	raised bog; flushed	PT
SN067	26/02/2021	08:24	Snipe	1	cutover bog; flushed	PT
SN068	26/02/2021	08:35	Snipe	3	cutover bog; flushed	PT
SN069	26/02/2021	08:40	Snipe	3	cutover bog; flushed	PT
SN070	26/02/2021	09:46	Snipe	1	raised bog; flushed	PT
SN071	26/02/2021	09:50	Snipe	3	raised bog; flushed	PT
SN072	26/02/2021	10:51	Snipe	1	cutover bog; flushed	PT
SN073	26/02/2021	15:27	Snipe	1	cutover bog; flushed	PT
SN074	26/02/2021	16:56	Snipe	2	raised bog; flushed	PT
SN075	26/02/2021	17:06	Snipe	2	raised bog; flushed	PT
SN076	29/03/2021	09:45	Snipe	2	bogs; flushed,	AR
SN077	29/03/2021	10:05	Snipe	1	bogs; flying,	AR
SN078	29/03/2021	11:32	Snipe	2	bogs; flushed,	AR
SN079	29/03/2021	11:36	Snipe	1	bogs; flushed,	AR
SN080	29/03/2021	12:01	Snipe	3	bogs; flushed,	AR
SN081	29/03/2021	13:43	Snipe	1	bogs; flushed,	AR
SN082	29/03/2021	13:52	Snipe	1	bogs; flushed,	AR
SN083	29/03/2021	14:02	Snipe	1	bogs; flushed,	AR
SN084	29/03/2021	14:08	Snipe	2	bogs; flushed,	AR
SN085	29/03/2021	14:14	Snipe	3	bogs; flushed,	AR
SN086	29/03/2021	14:41	Snipe	1	bogs; flushed,	AR
SN087	29/03/2021	15:15	Snipe	2	bogs; flushed,	AR
SN088	29/03/2021	15:18	Snipe	1	bogs; travelling,	AR
SN089	29/03/2021	15:23	Snipe	3	bogs; flushed,	AR

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SN090	29/03/2021	15:30	Snipe	2	bogs; flushed,	AR
SN091	29/03/2021	15:37	Snipe	1	bogs; flushed,	AR
SN092	29/03/2021	15:41	Snipe	1	bogs; flushed,	AR
SN093	29/03/2021	16:20	Snipe	2	bogs; flushed,	AR
SN094	29/03/2021	16:41	Snipe	4	bogs; flushed,	AR
SN095	30/11/2021	11:07	Snipe	1	cutover bog; flushed,	IH
SN096	30/11/2021	11:08	Snipe	1	cutover bog; flushed, flushed close to first bird	IH
SN097	30/11/2021	12:13	Snipe	1	cutover bog and dystrophic lakes; flushed,	IH
SN098	30/11/2021	12:18	Snipe	1	cutover bog; flushed, flushed from railway line	IH
SN099	17/12/2021	11:33	Snipe	1	bogs; flushed,	JM
SN100	13/01/2022	10:55	Snipe	1	bogs; flushed, jacksnipe	JM
SN101	13/01/2022	14:26	Snipe	1	bogs; flushed,	JM
SN102	17/01/2022	12:18	Snipe	2	bogs and drainage ditches; flushed,	JM
SN103	19/03/2022	16:17	Snipe	1	cutover bog; flushed flight,	NM
SN104	19/03/2022	16:27	Snipe	1	cutover bog; flushed flight,	NM

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SN001	edge of river Boyne	07/10/2020		Snipe	1	depositing/lowland rivers; feeding/roosting, terrestrial	DM
SN002	Reynella lake	30/12/2020		Snipe	1	lakes and ponds; feeding/roosting, edge of lake	DM
SN003	Annalla Lakes	12/01/2021	11:30	Snipe	1	lakes and ponds; roosting, edge of lake	DM
SN004	Within reeds	15/03/2021	13:26	Snipe	3	reed and large sedge swamps and wet grassland; flushed from area of wet reeds and grass, mosaic	NM

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
						of wet pools and reedy wet vegetation, vegetation had a rank look to it - turlough?	
SN005		30/03/2021	16:27	Snipe	3	improved agricultural grassland and wet grassland; calling within rushy patch of field	NM
SN006		30/03/2021	17:35	Snipe	2	wet grassland and scrub; flushed from wet grassland / gorse scrub	NM
SN007	Annalla Lakes	13/12/2021	14:30	Snipe	1	lakes and ponds; roosting	DM
SN008	Reynella lake	28/12/2021	14:30	Snipe	1	lakes and ponds; roosting	DM
SN009	River Deel	24/01/2022	10:30	Snipe	1	arable crops; roosting	DM
SN010	Johnstown lake	28/03/2022	12:30	Snipe	1	lakes and ponds; roosting	DM
SN011	Johnstown lake	14/04/2022	12:30	Snipe	1	lakes and ponds; roosting	DM
SN012	Reynella lake	14/04/2022	14:30	Snipe	3	lakes and ponds; roosting	DM
SN013	Crowinstown lake	29/04/2022	10:45	Snipe	2	lakes and ponds; roosting	DM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
SN001	CMVP4	24/11/2020	16:56	Snipe	1	5	improved agricultural grassland; travelling	KB
SN002	CMVP1	01/12/2020	10:10	Snipe	2	12	cutover bog; travelling	KB
SN003	CMVP2	01/12/2020	17:03	Snipe	1	5	improved agricultural grassland; travelling	KB
SN004	CMVP1	02/12/2020	16:51	Snipe	1	6	cutover bog; travelling	KB
SN005	CMVP1	02/12/2020	16:52	Snipe	2	8	cutover bog; travelling	KB
SN006	CMVP1	02/12/2020	16:56	Snipe	1	8	cutover bog; travelling	KB
SN007	CMVP3	09/12/2020	08:23	Snipe	1	4	improved agricultural grassland; flushed by surveyor at VP	KB

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
SN008	CMVP1	15/12/2020	16:50	Snipe	1	8	cutover bog; travelling	KB
SN009	CMVP1	15/12/2020	16:52	Snipe	1	4	cutover bog; travelling	KB
SN010	CMVP1	15/12/2020	16:52	Snipe	1	3	cutover bog; travelling	KB
SN011	CMVP1	15/12/2020	16:57	Snipe	1	8	cutover bog; travelling	KB
SN012	CMVP4	09/01/2021	09:33	Snipe	2	20	improved agricultural grassland; travelling	KB
SN013	CMVP1	14/01/2021	17:17	Snipe	1	20	cutover bog; travelling	KB
SN014	CMVP1	14/01/2021	17:19	Snipe	1	10	cutover bog; travelling	KB
SN015	CMVP1	14/01/2021	17:19	Snipe	1	5	cutover bog; moving around bog	KB
SN016	CMVP1	14/01/2021	17:22	Snipe	1	30	cutover bog; moving around bog	KB
SN017	CMVP1	14/01/2021	17:24	Snipe	1	5	cutover bog; moving around bog	KB
SN018	CMVP1	04/02/2021	09:40	Snipe	35	65	cutover bog; flushed from bog	DM
SN019	CMVP3	06/02/2021	07:08	Snipe	1		improved agricultural grassland; calling, heard only	DM
SN020	CMVP1	19/02/2021	18:25	Snipe	6		cutover bog; calling, leaving bog to feed	DM
SN021	CMVP1	24/02/2021	06:30	Snipe	1		cutover bog; calling, heard only	DM
SN022	CMVP3	24/02/2021	18:41	Snipe	1		improved agricultural grassland; calling, heard only	DM
SN023	CMVP2	08/03/2021	06:15	Snipe	1		improved agricultural grassland; calling, heard only	DM
SN024	CMVP1	09/03/2021	06:54	Snipe	2	20	cutover bog; flushed from bog, landed on bog	DM
SN025	CMVP4	11/03/2021	08:40	Snipe	7	60	lakes and ponds and improved agricultural grassland; flushed from small pond	DM
SN026	CMVP1	22/03/2021	18:57	Snipe	1	30	cutover bog; flushed from bog	DM
SN027	CMVP1	22/03/2021	19:18	Snipe	1		cutover bog; calling, leaving bog to feed	DM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
SN028	CMVP1	09/10/2021	16:39	Snipe	1		raised bog; calling, different bird than SN029	TS
SN029	CMVP1	09/10/2021	17:03	Snipe	1	25	raised bog; flying	TS
SN030	CMVP1	09/10/2021	19:19	Snipe	1	20	raised bog; flying, calling, possibly same bird (SN029)	TS
SN031	CMVP1	21/10/2021	07:11	Snipe	1		raised bog; calling, marked on the map	TS
SN032	CMVP1	02/11/2021	17:32	Snipe	1		raised bog; flight calls	TS
SN033	CMVP2	03/11/2021	06:30	Snipe	1		improved agricultural grassland; flight calls	TS
SN034	CMVP3	03/11/2021	15:13	Snipe	1	20	improved agricultural grassland and buildings and artificial surfaces; flying	TS
SN035	CMVP3	03/11/2021	17:28	Snipe	1	40	improved agricultural grassland, hedgerows and buildings and artificial surfaces; flying, calling, flew over n52 SW	TS
SN036	CMVP1	02/12/2021	16:51	Snipe	1	100	raised bog, scrub and buildings and artificial surfaces; flying, calling	TS
SN037	CMVP2	03/12/2021	07:34	Snipe	1		buildings and artificial surfaces; flight calls heard, not mapped	TS
SN038	CMVP1	18/12/2021	07:57	Snipe	1		cutover bog; calling	TS
SN039	CMVP3	19/12/2021	07:48	Snipe	1	15	improved agricultural grassland; flying, calling	TS
SN040	CMVP1	11/01/2022	17:16	Snipe	2	45	cutover bog; flying calling	TS
SN041	CMVP1	11/01/2022	17:16	Snipe	1		cutover bog; calling, different bird than sn040	TS
SN042	CMVP1	25/01/2022	07:37	Snipe	1		cutover bog; calling, bird not seen	TS
SN043	CMVP1	01/02/2022	17:44	Snipe	2	15	cutover bog; flying, calling	TS
SN044	CMVP2	02/02/2022	07:20	Snipe	1		improved agricultural grassland; flight calls	TS

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
SN045	CMVP3	02/02/2022	17:46	Snipe	1		improved agricultural grassland; flight calls	TS
SN046	CMVP1	01/03/2022	16:01	Snipe	1	10	cutover bog; flying, flushed from the bog pool	TS
SN047	CMVP1	01/03/2022	18:40	Snipe	1		cutover bog; calling flying	TS
SN048	CMVP1	01/03/2022	18:48	Snipe	2		cutover bog; calling, flying	TS
SN049	CMVP2	02/03/2022	06:24	Snipe	1		improved agricultural grassland; calling flying	TS
SN050	CMVP1	23/04/2022	21:25	Snipe	1	10	heath; calling, heard but not seen	EF

Incidental Observations								
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity		Surveyor
SN001	Vantage Point Survey, along railway track on bog, close to VP13	20/04/2020		Snipe	3			PC
SN002	Vantage Point Survey, near VP12	27/04/2020		Snipe	1			PC
SN003	Breeding Woodcock Survey, T1	08/05/2020	21:49	Snipe	1			PT
SN004	Breeding Woodcock Survey, T1	08/05/2020	21:59	Snipe	1			PT
SN005	Breeding Woodcock Survey, T1	08/05/2020	21:59	Snipe	1			PT
SN006	Breeding Woodcock Survey, T1	08/05/2020	22:08	Snipe	1			PT
SN007	Breeding Woodcock Survey, T2	11/05/2020	22:00	Snipe	1			PT
SN008	Breeding Woodcock Survey, T3	14/05/2020	22:06	Snipe	1			PT
SN009	Breeding Woodcock Survey, T3	14/05/2020	22:06	Snipe	1			PT
SN010	Vantage Point Survey, VP4	14/05/2020		Snipe	1			PC
SN011	Breeding Woodcock Survey, T2	19/05/2020	22:22	Snipe	1			PT
SN012	Vantage Point Survey, VP4	04/06/2020		Snipe	1			PC

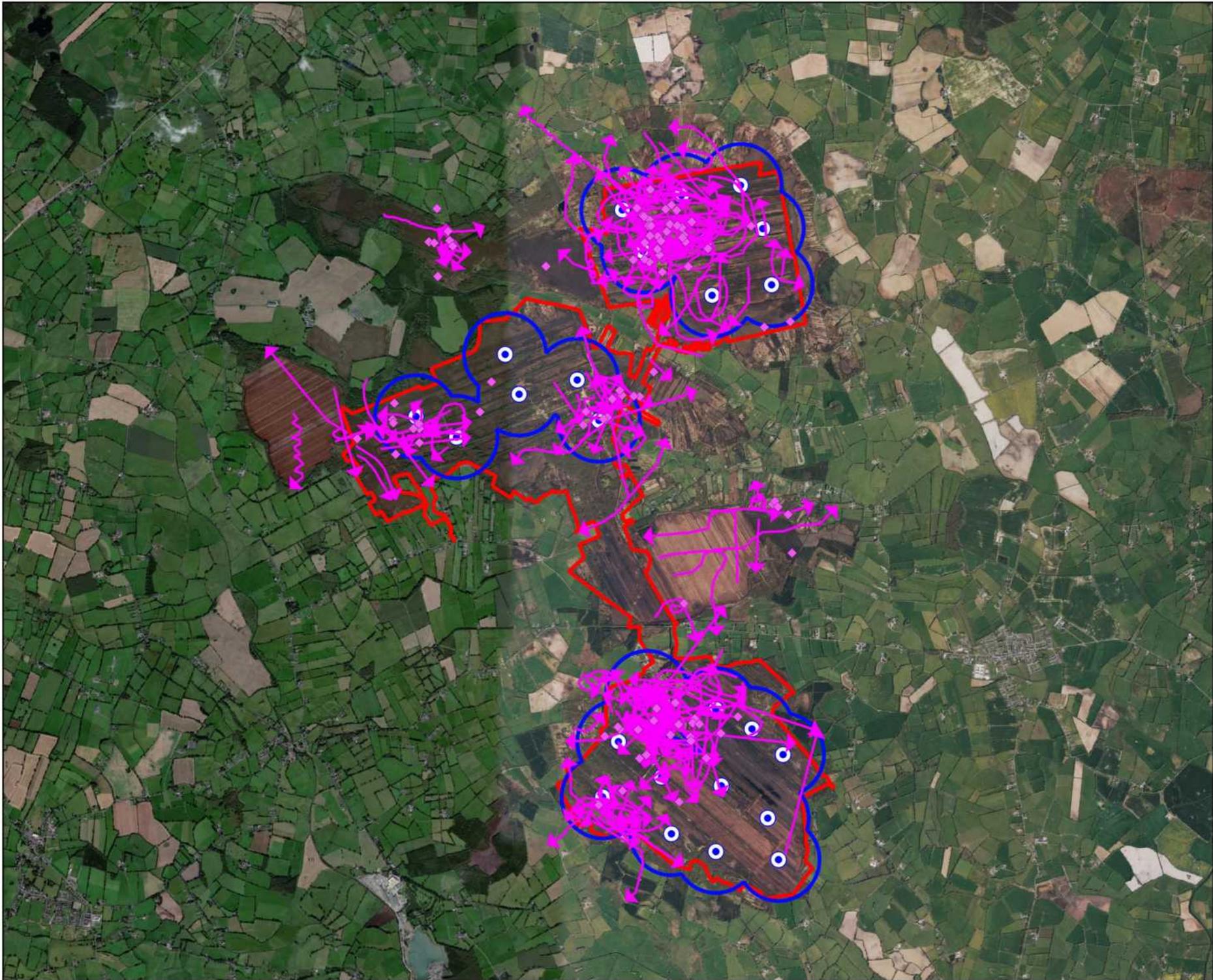
Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SN013	Vantage Point Survey, VP8	10/06/2020		Snipe	3		PC
SN014	Vantage Point Survey, VP3	15/06/2020		Snipe	1		PC
SN015	Breeding Woodcock Survey, T7	16/06/2020	23:05	Snipe	1	cutover bog; drumming	DM
SN016	Vantage Point Survey, Clonleame bog	18/06/2020		Snipe	1		PC
SN017	Vantage Point Survey, VP5	02/07/2020		Snipe	2		PC
SN018	Vantage Point Survey, VP5	09/07/2020		Snipe	1		PC
SN019	Vantage Point Survey, VP4	09/07/2020		Snipe	1		PC
SN020	Vantage Point Survey, Robbersbush, VP8	14/07/2020		Snipe	2		PC
SN021	Vantage Point Survey, VP15	28/10/2020	14:50	Snipe	5		PW
SN022	Vantage Point Survey, VP15	28/10/2020	14:52	Snipe	1		PW
SN023	Vantage Point Survey, approx. 500m-1km from VP16	10/11/2020		Snipe	1		KB
SN024	Vantage Point Survey, on route to VP 16	10/11/2020		Snipe	4		KB
SN025	Vantage Point Survey, on route to VP 15 from car	12/11/2020		Snipe	2		KB
SN026	Vantage Point Survey, VP14	18/12/2020		Snipe	20		DM
SN027	Vantage Point Survey, walking to VP 16	22/01/2021		Snipe	2		KB
SN028	Breeding Barn Owl Survey, BOVP1	25/01/2021	17:13	Snipe	1	improved agricultural grassland and hedgerows; travelling	DW
SN029	Vantage Point Survey, walking to VP 16	26/02/2021	12:15	Snipe	3	cutover bog; flushed, map reference number marked in green on map	KB
SN030	Vantage Point Survey, walking from VP16 to car	26/02/2021	19:05	Snipe	1	cutover bog; flushed, map reference number marked in green on map	KB
SN031	Vantage Point Survey, VP4	11/03/2021	05:50	Snipe	1	cutover bog and scrub; flushed on way to VP	DW
SN032	Vantage Point Survey, on way to car from VP	17/03/2021	08:42	Snipe	1	cutover bog; flushed	KB
SN033	Vantage Point Survey, on way to VP from car	19/03/2021	05:25	Snipe	1	cutover bog; flushed	KB

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SN034	Vantage Point Survey, walking from VP11 on break	07/05/2021	07:50	Snipe	1	cutover bog; flushed	KB
SN035	Vantage Point Survey, over access track to VP14	17/05/2021	11:03	Snipe	1	cutover bog and scrub; drumming	KB
SN036	Breeding Woodcock Survey, WKT7	09/06/2021	23:38	Snipe	1	bogs; drumming	TR
SN037	Breeding Woodcock Survey, WKT7	09/06/2021	23:40	Snipe	1	bogs; roosting on path	TR
SN038	Breeding Woodcock Survey, WKT6	21/06/2021	23:10	Snipe	1	bogs; drumming	TR
SN039	Waterbird Distribution Survey, WKT11	23/06/2021	23:13	Snipe	1	bogs; drumming	TR
SN040	Breeding Raptor Survey, transect 6	06/07/2021	15:39	Snipe	1	cutover bog; calling on ground	KB
SN041	Breeding Raptor Survey, transect 1	08/07/2021	15:22	Snipe	1	cutover bog; chipping	KB
SN042	Vantage Point Survey, VP13	16/09/2021	14:03	Snipe	1	upland blanket bog; flushed	DW
SN043	Vantage Point Survey, VP16	25/09/2021	13:30	Snipe	1	bogs; flushed	DW
SN109	Vantage Point Survey, rear of VP2	11/10/2021	07:00	Snipe	1	bogs; heard calling, heard and not seen. not mapped	JM
SN045	Vantage Point Survey, VP5 parking area	12/10/2021	06:45	Snipe	1	bogs; flushed/calling	JM
SN046	Vantage Point Survey, between VP5 and VP3	13/10/2021	06:45	Snipe	1	bogs; flushed	JM
SN047	Vantage Point Survey, rear of VP3	13/10/2021	09:26	Snipe	1	bogs; calling	JM
SN048	Hen Harrier Roost Survey, HHVP1	15/10/2021	18:56	Snipe	1	cutover bog; calling, heard only	DM
SN049	Hen Harrier Roost Survey, HHVP2	18/10/2021	19:03	Snipe	6	cutover bog; calling, heard only	DM
SN050	Vantage Point Survey, bog road to VP8	21/10/2021	06:30	Snipe	1	bogs; flushed	JM
SN051	Vantage Point Survey, rear of VP7	22/10/2021	06:58	Snipe	1	bogs; flushed	JM
SN052	Hen Harrier Roost Survey, HHVP4	26/10/2021	18:40	Snipe	2	cutover bog; calling, heard only	DM
SN053	Hen Harrier Roost Survey, HHVP3	29/10/2021	18:30	Snipe	2	cutover bog; calling, heard only	DM
SN054	Hen Harrier Roost Survey, HHRVP1	05/11/2021	16:07	Snipe	1	bogs; flying/calling	JM
SN055	Vantage Point Survey, RVP1	05/11/2021	17:21	Snipe	2	bogs; flying/calling	JM
SN056	Hen Harrier Roost Survey, HHVP2	12/11/2021	17:16	Snipe	1	bogs; calling/flying, not seen, only heard, visibility poor	JM

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SN057	Vantage Point Survey, access track to VP16	18/11/2021	10:45	Snipe	1	cutover bog and bog woodland; flushed	KS
SN058	Hen Harrier Roost Survey, HHVP3	19/11/2021	06:50	Snipe	1	bogs; flushed	JM
SN059	Vantage Point Survey, 50m S from VP11	21/11/2021	14:05	Snipe	1	cutover bog; flushed flying	TS
SN060	Vantage Point Survey, 100m E from VP14	26/11/2021	13:55	Snipe	2	cutover bog; flushed flying	TS
SN061	Vantage Point Survey, 100m W from VP10	28/11/2021	13:50	Snipe	1	cutover bog; flushed flying	TS
SN062	Vantage Point Survey, near VP2	02/12/2021	07:05	Snipe	1	raised bog; flight calls heard	TS
SN063	Vantage Point Survey, en-route to VP3	02/12/2021	07:16	Snipe	1	bogs; fly/call, flushed	JM
SN064	Vantage Point Survey, parking area for VP4	03/12/2021	07:40	Snipe	1	marsh and bogs; calling	JM
SN065	Hen Harrier Roost Survey, HHVP4	03/12/2021	16:49	Snipe	1	cutover bog; flushed	KS
SN066	Hen Harrier Roost Survey, HHVP2	06/12/2021	16:42	Snipe	1	cutover bog; flushed, walked through grasses then flushed	KS
SN067	Hen Harrier Roost Survey, HHVP2	06/12/2021	16:58	Snipe	1	cutover bog; travelling	KS
SN068	Hen Harrier Roost Survey, HHVP2	06/12/2021	17:03	Snipe	3	cutover bog; travelling	KS
SN069	Vantage Point Survey, 300m S of VP7	12/12/2021	10:35	Snipe	1	cutover bog; flushed flying calling, E of railway line	TS
SN070	Vantage Point Survey, VP13	14/12/2021	07:30	Snipe	1	cutover bog; flushed	KS
SN071	Vantage Point Survey, VP9 parking space	16/12/2021	07:10	Snipe	1	cutover bog; flight calls heard	TS
SN072	Vantage Point Survey, near lake 500m N of VP9	16/12/2021	10:45	Snipe	1	cutover bog, mixed broadleaved/conifer woodland and acid oligotrophic lakes; flushed	TS
SN073	Hen Harrier Roost Survey, HHVP3	22/12/2021	16:53	Snipe	1	cutover bog; flushed	KS
SN074	Vantage Point Survey, VP1	07/01/2022	17:06	Snipe	5	bogs; calling/flying, too dark to see so recorded as incidental	JM
SN075	Vantage Point Survey, Ballivor VP4 car parking area	10/01/2022	17:21	Snipe	4	marsh and bogs; calling/flying	JM
SN076	Hen Harrier Roost Survey, HHVP2	11/01/2022	15:16	Snipe	1	cutover bog and bog woodland; flushed	KS
SN077	Vantage Point Survey, VP13	18/01/2022	17:14	Snipe	2	cutover bog; calling	KS

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SN078	Wintering Golden Plover Survey, Parkstown, Ballivor	19/01/2022	11:06	Snipe	2	improved agricultural grassland; perched in field	JM
SN079	Hen Harrier Roost Survey, HHVP3	28/01/2022	17:32	Snipe	1	cutover bog; calling, calling from bog, not seen	IH
SN080	Hen Harrier Roost Survey, HHVP3	28/01/2022	17:32	Snipe	1	cutover bog; calling, calling from bog behind HHVP	IH
SN081	Vantage Point Survey, VP4	02/02/2022	08:00	Snipe	1	cutover bog; flushed flight	NM
SN082	Wintering Golden Plover Survey, Parkstown, Ballivor	09/02/2022	10:26	Snipe	1	improved agricultural grassland; perched/on ground	JM
SN083	Vantage Point Survey, VP16 track	15/02/2022	06:35	Snipe	3	cutover bog; flushed	KS
SN084	Hen Harrier Roost Survey, HHVP2	17/02/2022	16:05	Snipe	1	cutover bog; flushed	NM
SN085	Hen Harrier Roost Survey, HHVP2	17/02/2022	16:06	Snipe	1	cutover bog; flushed	NM
SN086	Hen Harrier Roost Survey, HHVP2	17/02/2022	16:08	Snipe	1	cutover bog; flushed	NM
SN087	Hen Harrier Roost Survey, HHVP2	17/02/2022	16:09	Snipe	1	cutover bog; flushed	NM
SN088	Hen Harrier Roost Survey, HHVP2	17/02/2022	16:43	Snipe	1	cutover bog; flushed	NM
SN089	Vantage Point Survey, VP6	25/02/2022	12:25	Snipe	1	bogs; flushed, on way to VP	DW
SN090	Vantage Point Survey, VP1, model airplane club	01/03/2022	18:50	Snipe	3	bogs; flushed	JM
SN091	Waterbird Distribution Survey, Clonleame	02/03/2022	18:45	Snipe	8	bogs; drumming/calling/flushed/flying, around general area of symbol	JM
SN092	Vantage Point Survey, 350m E from VP14	15/03/2022	12:35	Snipe	1	cutover bog; flushed	TS
SN093	Vantage Point Survey, 300m NE from VP14	15/03/2022	16:10	Snipe	6	cutover bog; flushed while walking	TS
SN094	Vantage Point Survey, W of rail track halfway between VP12 and 13	15/03/2022	19:55	Snipe	2	cutover bog; drumming	TS
SN095	Hen Harrier Roost Survey, HHVP2	16/03/2022	16:59	Snipe	1	raised bog; flushed flight	NM
SN096	Hen Harrier Roost Survey, HHVP2	16/03/2022	17:00	Snipe	1	raised bog; flushed flight	NM
SN097	Vantage Point Survey, VP5	22/03/2022	15:36	Snipe	1	raised bog; flushed flight, hunting dog disturbed individual as well as multiple hares	NM

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SN098	Vantage Point Survey, VP8	25/03/2022	13:05	Snipe	1	raised bog; flushed flight	NM
SN099	Vantage Point Survey, Clonleame bog	04/04/2022	06:40	Snipe	2	bogs; fly/call	JM
SN100	Vantage Point Survey, Clonleame	04/04/2022	08:40	Snipe	2	bogs; chipping/calling	JM
SN101	Breeding Raptor Survey, T1	14/04/2022	13:12	Snipe	1	dry calcareous and neutral grassland and cutover bog; flushed	KS
SN102	Breeding Woodcock Survey, WKT11	17/05/2022	21:45	Snipe	1	cutover bog; drumming	KS
SN103	Vantage Point Survey, VP15	26/06/2022	18:05	Snipe	1	cutover bog and scrub; flying, disturbed from nest accidentally after VP watch. 4 eggs in nest	EF
SN104	Breeding Woodcock Survey, WKT11	29/06/2022	23:20	Snipe	1	scrub and cutover bog; drumming	NM
SN105	Breeding Woodcock Survey, WKT8	30/06/2022	22:35	Snipe	1	bogs and conifer plantation; drumming	NM
SN106	Vantage Point Survey, VP10	08/09/2022	14:22	Snipe	1	cutover bog; flushed flight	NM
SN107	Vantage Point Survey, walking to VP14	25/09/2022	13:35	Snipe	1	cutover bog and scrub; flushed	EF
SN108	Vantage Point Survey, VP5	26/09/2022	15:51	Snipe	1	cutover bog and conifer plantation; flushed flight/alarm call, flushed by dog	NM
SN044	Vantage Point Survey, rear of VP2	11/10/2021	07:00	Snipe	1		JM



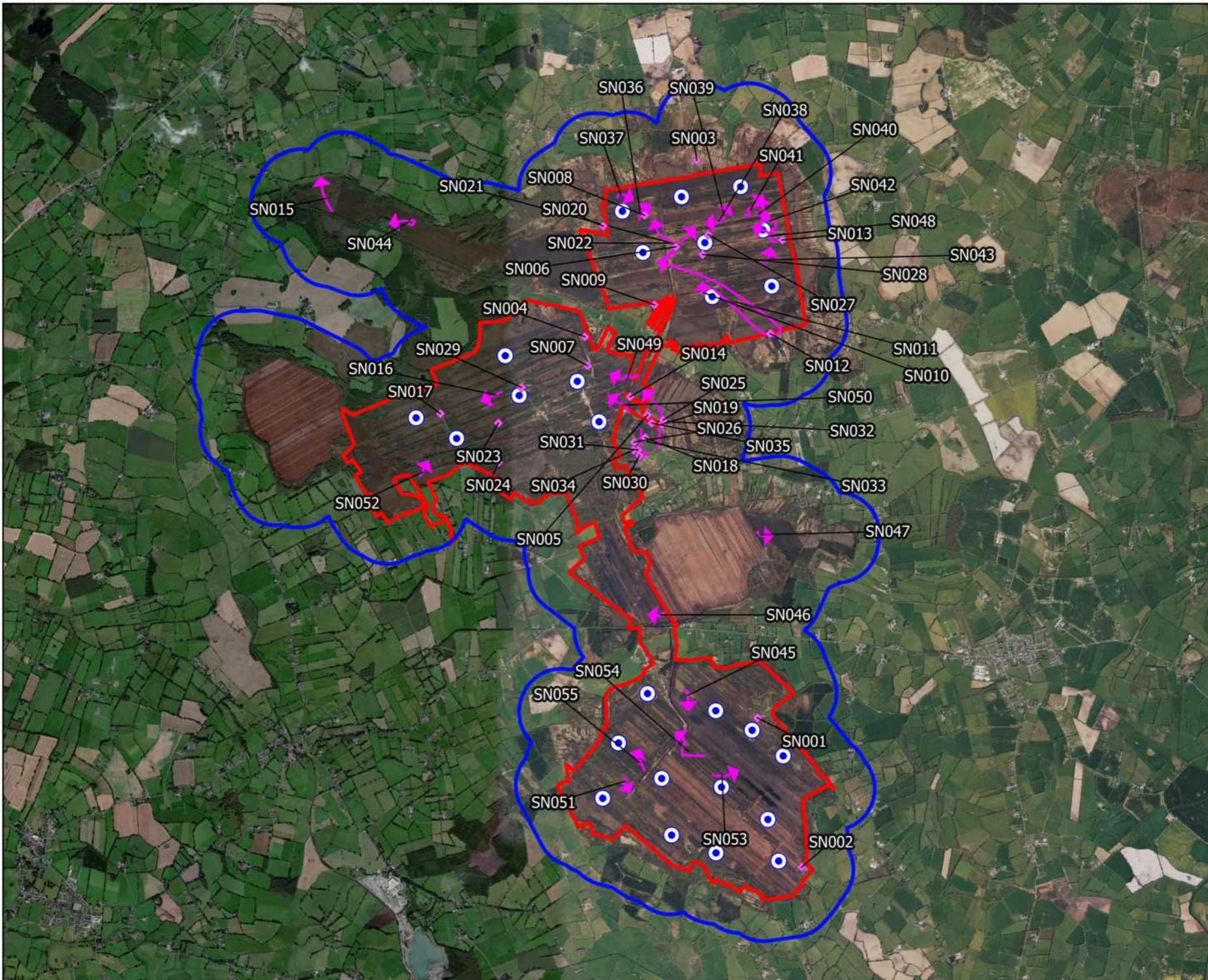
Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  500m Turbine Buffer
-  Flightline
-  Observation



Drawing Title	
Snipe Observations Vantage Point Surveys	
Project Title	
Ballivor Wind Farm	
Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.1.14
Scale	Date
1:60000	14.02.23
 MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VV84 +353 (0) 91 735611 email: info@mkofireland.ie Website: www.mkofireland.ie	

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation

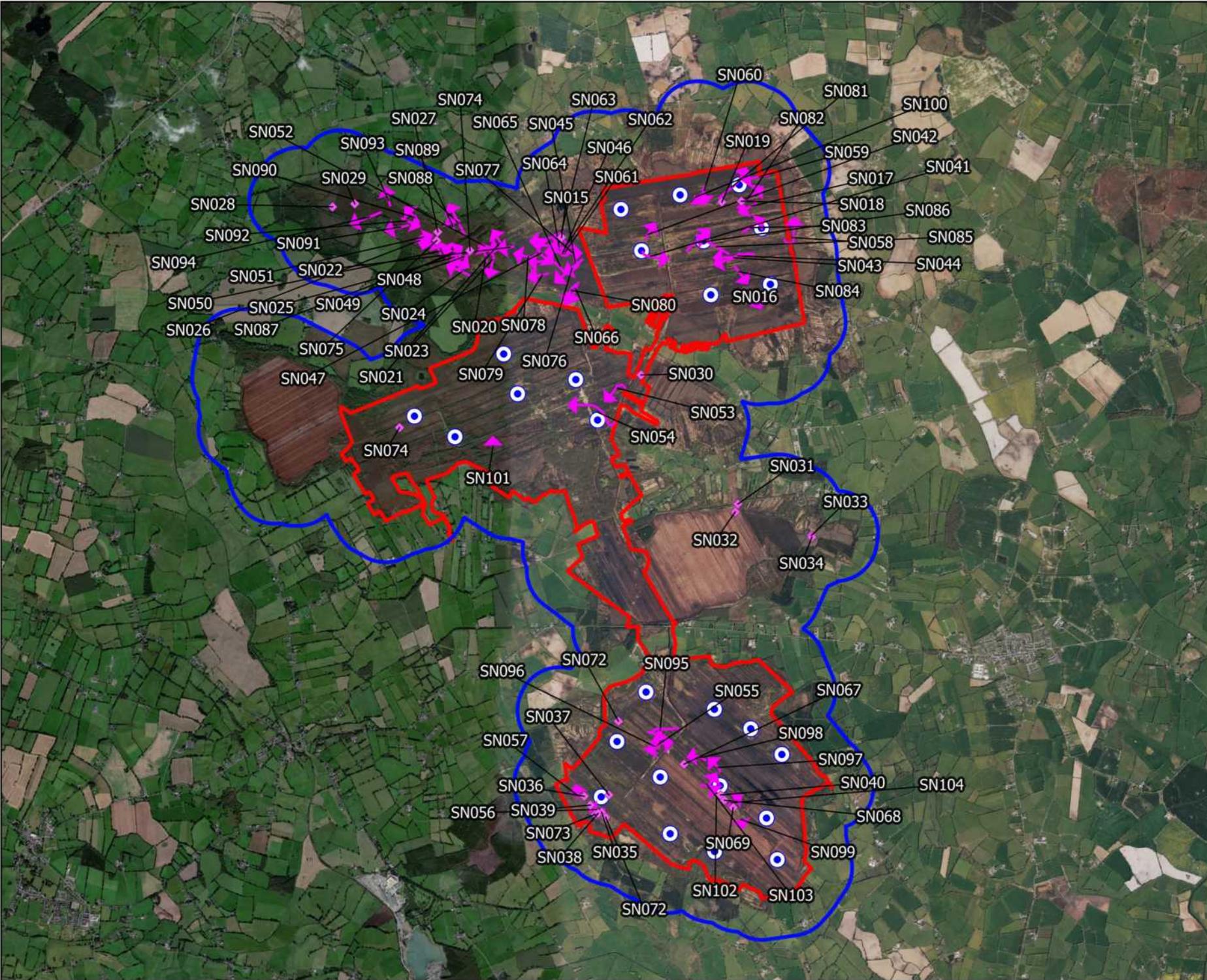


Snipe Observations
Breeding Walkover Surveys

Ballivor Wind Farm

Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.3.8
Scale	Date
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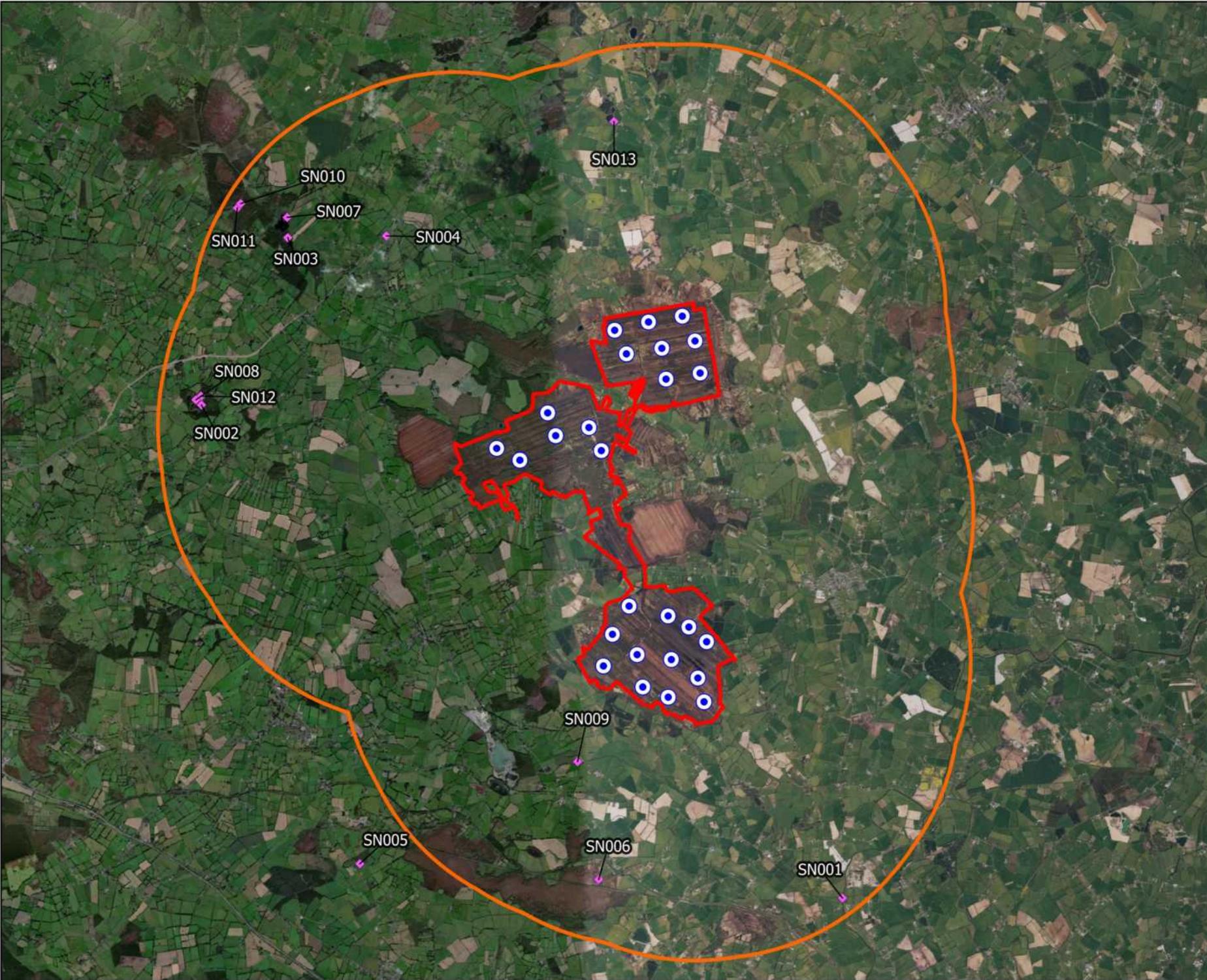
Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title Snipe Observations Winter Walkover Surveys	
Project Title Ballivor Wind Farm	
Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.7.8
Scale 1:60000	Date 14.02.23
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Map Legend

- Wind Farm Site
- ⊙ Proposed Turbine Layout
- Survey Area
- ◆ Observation



Drawing Title

**Snipe Observations
Waterbird Distribution Surveys**

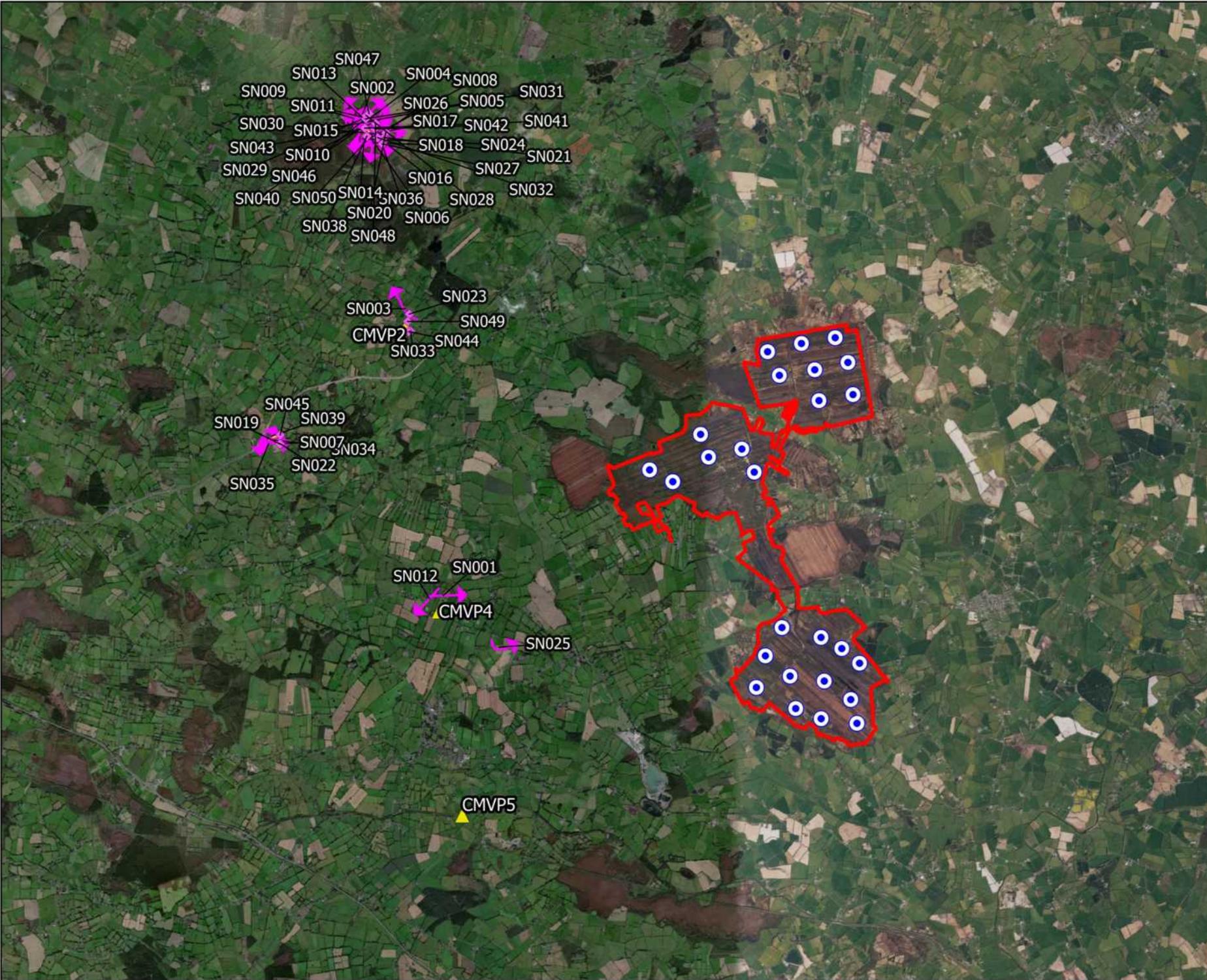
Project Title

Ballivor Wind Farm

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Project No. 191137	Drawing No. Fig. 7.8.7
Scale 1:105000	Date 14.02.23

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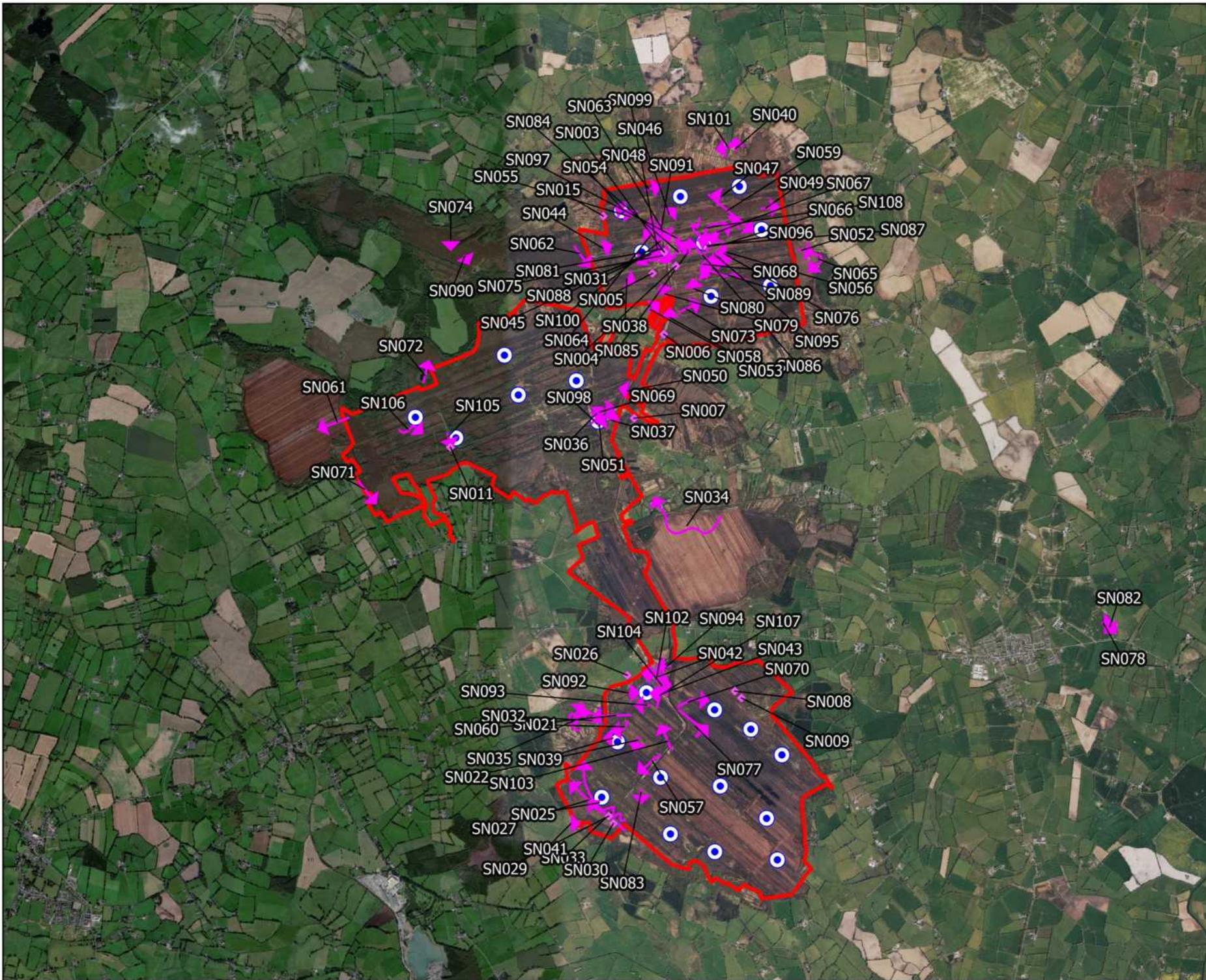
Map Legend

- Wind Farm Site
- ⊙ Proposed Turbine Layout
- ▲ Connectivity Vantage Point Survey Location
- Flightline



Drawing Title	
Snipe Observations Connectivity VP Surveys	
Project Title	
Ballivor Wind Farm	
Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.9.8
Scale	Date
1:105000	14.02.23
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline
- ◆ Observation



Drawing Title

Snipe
Incidental Observations

Project Title

Ballivor Wind Farm

Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.12.11
Scale	Date
1:60000	14.02.23

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Table 16 Woodcock Survey Data

Vantage Point Surveys												
Map 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
WK004	VP15	18/05/2020	04:30	Woodcock	1						mixed broadleaved/conifer woodland and cutover bog; roding, heard only	DM
WK005	VP8	16/06/2020	09:11	Woodcock	1	7	7				bog woodland; flew up as sn003 flew over railway line opposite the VP, heading E of VP. lost over woodland to SE of VP., bord na mona men were working to SE of the VP so they may have flushed wk004 and sn005.	PC
WK006	VP11	16/11/2020	07:14	Woodcock	1	30	30	0	0	0	mixed broadleaved/conifer woodland and cutover bog; travelling, flew across bog into birchwood	DM
WK007	VP8	07/12/2020	16:55	Woodcock	1	30	30	0		0	cutover bog and mixed broadleaved/conifer woodland; leaving bog to feed	DM
WK008	VP8	07/12/2020	17:03	Woodcock	1	35	35	0		0	cutover bog and mixed broadleaved/conifer woodland; leaving bog to feed	DM
WK009	VP14	18/12/2020	12:30	Woodcock	1	35	35	0	0	0	cutover bog and mixed broadleaved/conifer woodland; flushed from birch trees	DM
WK011	VP15	24/02/2021	18:43	Woodcock	1	5	5		0		cutover bog; travelling	KB
WK010	VP10	25/02/2021	18:36	Woodcock	1	30	30	0	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, going to feed	DM
WK012	VP13	23/03/2021	06:01	Woodcock	1	15	15	0	0	0	cutover bog and immature woodland; flying S across bog towards scrub and immature woodland, strange calls and noises	NM
WK014	VP8	05/04/2021	20:35	Woodcock	1	60	0	60	0	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM

Vantage Point Surveys												
Map 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
WK015	VP8	05/04/2021	20:37	Woodcock	1	30	0	30	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
WK016	VP8	05/04/2021	20:40	Woodcock	1	90	0	90	0	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK017	VP8	05/04/2021	20:43	Woodcock	1	60	0	60	0	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK018	VP8	05/04/2021	20:52	Woodcock	1	60	0	60	0	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK019	VP12	16/04/2021	20:48	Woodcock	1	5	5	0	0	0	scrub and immature woodland; travelling - landed	KB
WK020	VP12	16/04/2021	20:59	Woodcock	2	4	4	0	0	0	conifer plantation; travelling - landed	KB
WK021	VP12	16/04/2021	21:03	Woodcock	1	5	5	0	0	0	scrub and immature woodland; travelling - landed	KB
WK022	VP7	20/04/2021	20:45	Woodcock	1	90	0	0	90	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK023	VP7	20/04/2021	20:49	Woodcock	1	95	0	0	95	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK024	VP7	20/04/2021	20:59	Woodcock	1	35	0	0	35	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK025	VP7	20/04/2021	21:01	Woodcock	1	40	0	0	40	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK026	VP7	20/04/2021	21:08	Woodcock	1	30	0	30	0	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK027	VP7	20/04/2021	21:18	Woodcock	1	25	0	25	0	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK028	VP6	21/04/2021	21:16	Woodcock	1	30	0	30	0	0	cutover bog and mixed broadleaved/conifer woodland; roding	DM
WK029	VP3	22/04/2021	21:19	Woodcock	1	50	0	50	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, probably roding	DM

Vantage Point Surveys												
Map 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
WK030	VP16	14/07/2021	22:06	Woodcock	1	30	0	0	30	0	highly modified/non-native woodland; over woodland	AR
WK036	VP1	15/02/2022	11:35	Woodcock	1	8	8	0	8	0	bogs and conifer plantation; travelling	JM
WK037	VP13	17/02/2022	07:59	Woodcock	1	5	3	2	5	0	cutover bog and hedgerows; flying	EH
WK038	VP12	13/03/2022	18:58	Woodcock	2	10	10	0	10	0	conifer plantation; roding	KB
WK039	VP12	13/03/2022	19:04	Woodcock	1	8	8	0	8	0	conifer plantation and semi-natural grassland; roding	KB
WK040	VP9	16/03/2022	19:10	Woodcock	1	6	6	0	6	0	cutover bog and mixed broadleaved/conifer woodland; roding	KB
WK041	VP15	29/03/2022	20:39	Woodcock	1	20	20	0	20	0	cutover bog and mixed broadleaved/conifer woodland; roding	KS
WK042	VP10	30/03/2022	20:20	Woodcock	1	8	0	8	8	0	immature woodland and mixed broadleaved/conifer woodland; roding	KB
WK043	VP10	30/03/2022	20:22	Woodcock	1	10	0	10	10	0	immature woodland and mixed broadleaved/conifer woodland; roding	KB
WK044	VP10	30/03/2022	20:23	Woodcock	1	15	5	10	15	0	immature woodland, mixed broadleaved/conifer woodland and cutover bog; roding	KB
WK045	VP10	30/03/2022	20:29	Woodcock	1	15	5	10	15	0	immature woodland, mixed broadleaved/conifer woodland and cutover bog; roding	KB
WK046	VP10	30/03/2022	20:32	Woodcock	1	6	0	6	6	0	immature woodland; roding	KB
WK047	VP10	30/03/2022	20:38	Woodcock	1	8	0	8	8	0	immature woodland; roding	KB
WK048	VP14	04/05/2022	21:25	Woodcock	1	220	220	0	220	0	cutover bog and mixed broadleaved/conifer woodland; roding	KS
WK049	VP5	10/05/2022	21:50	Woodcock	1	7	0	7	7	0	heath; flying, over birch scrub	EF
WK050	VP5	10/05/2022	21:55	Woodcock	2	10	10	0	10	0	heath; flying, flew across turf track and along embankment	EF
WK051	VP6	15/05/2022	21:50	Woodcock	2	5	5	0	5	0	heath and scrub/transitional woodland; direct flight, calling	EF

Vantage Point Surveys												
Map 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
WK052	VP6	16/05/2022	22:00	Woodcock	1	4	4	0	4	0	heath and scrub/transitional woodland; direct flight	EF
WK053	VP6	17/05/2022	22:05	Woodcock	1	3	3	0	3	0	heath and scrub/transitional woodland; direct flight, calling	EF
WK054	VP8	30/05/2022	21:27	Woodcock	1	80	80	0	80	0	cutover bog and mixed broadleaved/conifer woodland; roding	KS
WK055	VP9	01/06/2022	21:41	Woodcock	1	320	320	0	320	0	cutover bog and mixed broadleaved/conifer woodland; roding	KS
WK056	VP9	01/06/2022	21:54	Woodcock	1	220	220	0	220	0	cutover bog and mixed broadleaved/conifer woodland; roding	KS
WK057	VP16	25/09/2022	19:55	Woodcock	2	5	5	0	5	0	heath and scrub; direct flight, seen briefly. lost to view	EF

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
WK013	VP7	05/01/2021	07:40	Woodcock	3	cutover bog and mixed broadleaved/conifer woodland; on bog road, as I drove to VP	DM
WK031	VP10	06/04/2021	21:05	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland; roding, heard only	DM
WK032	VP4	19/04/2021	21:08	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland; roding, heard only	DM
WK033	VP7	20/04/2021	21:09	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland; roding, heard only	DM
WK034	VP7	20/04/2021	21:21	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland; roding, heard only	DM
WK035	VP6	21/04/2021	21:20	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland; roding, heard only	DM

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK001	T1	08/05/2020	21:47	Woodcock	1		PT
WK002	T2	11/05/2020	21:47	Woodcock	1		PT
WK003	T2	11/05/2020	22:03	Woodcock	1		PT
WK004	T2	19/05/2020	21:45	Woodcock	1		PT
WK005	T2	19/05/2020	21:48	Woodcock	1		PT
WK006	T2	19/05/2020	22:16	Woodcock	1		PT
WK007	T2	19/05/2020	22:21	Woodcock	1		PT
WK008	T1	02/06/2020	22:18	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK009	T1	02/06/2020	22:21	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK010	T1	02/06/2020	22:22	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK011	T1	02/06/2020	22:24	Woodcock	2	cutover bog and mixed broadleaved/conifer woodland, chasing	DM
WK012	T1	02/06/2020	22:25	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK013	T5	09/06/2020	21:51	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK014	T5	09/06/2020	21:57	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK015	T5	09/06/2020	22:17	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK016	T5	09/06/2020	22:23	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK017	T5	09/06/2020	22:26	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK018	T5	09/06/2020	22:28	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK019	T6	15/06/2020	22:15	Woodcock	2	cutover bog and mixed broadleaved/conifer woodland, roding, flying together	DM
WK020	T6	15/06/2020	22:17	Woodcock	2	cutover bog and mixed broadleaved/conifer woodland, roding, flying together	DM
WK021	T6	15/06/2020	22:18	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK022	T6	15/06/2020	22:30	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK023	T6	15/06/2020	22:43	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK024	T7	16/06/2020	22:11	Woodcock	2	cutover bog and mixed broadleaved/conifer woodland, roding, 1 dropped into woodland	DM
WK025	T7	16/06/2020	22:53	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK026	T8	17/06/2020	22:13	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK027	T8	17/06/2020	22:22	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK028	T8	17/06/2020	22:25	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding, adult male	DM
WK029	WKT3	11/05/2021	22:01	Woodcock	1	mixed broadleaved woodland, roding	DW
WK030	WKT3	11/05/2021	22:16	Woodcock	1	mixed broadleaved woodland, roding, looked to drop down to ground	DW
WK031	WKT7	19/05/2021	21:07	Woodcock	1	bogs, roding	TR
WK032	WKT7	19/05/2021	21:17	Woodcock	1	bogs and woodland and scrub, roding	TR
WK034	WKT7	19/05/2021	21:31	Woodcock	1	bogs and woodland and scrub, roding	TR
WK035	WKT7	19/05/2021	21:39	Woodcock	1	bogs and woodland and scrub, roding	TR
WK036	WKT7	19/05/2021	21:42	Woodcock	1	bogs and woodland and scrub, roding	TR
WK037	WKT7	19/05/2021	21:44	Woodcock	1	bogs and woodland and scrub, roding	TR
WK038	WKT7	19/05/2021	21:55	Woodcock	1	bogs and woodland and scrub, roding	TR

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK041	WKT7	19/05/2021	21:59	Woodcock	1	bogs, roding	TR
WK039	WKT7	19/05/2021	22:03	Woodcock	1	bogs and woodland and scrub, roding	TR
WK042	WKT7	19/05/2021	22:03	Woodcock	1	bogs, roding	TR
WK040	WKT7	19/05/2021	22:05	Woodcock	1	bogs and woodland and scrub, roding	TR
WK043	WKT7	19/05/2021	22:07	Woodcock	1	bogs, roding	TR
WK044	WKT7	19/05/2021	22:12	Woodcock	1	bogs, roding	TR
WK045	WKT7	19/05/2021	22:12	Woodcock	1	bogs, roding	TR
WK046	WKT7	19/05/2021	22:14	Woodcock	2	bogs, roding & flying, pair flying together, one roding	TR
WK047	WKT7	19/05/2021	22:35	Woodcock	1	bogs, roding, one of two individuals flying back and forth	TR
WK048	WKT7	19/05/2021	22:35	Woodcock	1	bogs, roding, one of two individuals flying back and forth	TR
WK033	WKT7	19/05/2021	23:09	Woodcock	1	bogs and woodland and scrub, roding	TR
WK049	WKT8	25/05/2021	21:29	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH
WK050	WKT8	25/05/2021	21:30	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK051	WKT8	25/05/2021	21:35	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK052	WKT8	25/05/2021	21:37	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK053	WKT8	25/05/2021	21:41	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK054	WKT8	25/05/2021	21:49	Woodcock	1	conifer plantation, cutover bog and scrub, heard roding not seen	IH
WK055	WKT8	25/05/2021	21:50	Woodcock	1	conifer plantation, cutover bog and scrub, heard roding not seen	IH
WK056	WKT8	25/05/2021	21:51	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK057	WKT8	25/05/2021	21:59	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK058	WKT8	25/05/2021	22:00	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK059	WKT8	25/05/2021	22:03	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK060	WKT8	25/05/2021	22:05	Woodcock	1	conifer plantation, cutover bog and scrub, heard roding not seen	IH
WK061	WKT8	25/05/2021	22:05	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK062	WKT8	25/05/2021	22:10	Woodcock	1	conifer plantation, cutover bog and scrub, heard roding not seen	IH
WK063	WKT8	25/05/2021	22:11	Woodcock	1	conifer plantation, cutover bog and scrub, heard roding not seen	IH
WK064	WKT8	25/05/2021	22:14	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK065	WKT8	25/05/2021	22:16	Woodcock	2	conifer plantation, cutover bog and scrub, two birds roding and chipping together	IH
WK066	WKT8	25/05/2021	22:18	Woodcock	1	conifer plantation, cutover bog and scrub, seen and heard roding	IH
WK067	WKT9	27/05/2021	21:39	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH
WK068	WKT9	27/05/2021	21:41	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH
WK069	WKT9	27/05/2021	21:43	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH
WK070	WKT9	27/05/2021	21:43	Woodcock	1	conifer plantation and cutover bog, seen and heard roding, possible interaction between this bird and bird above	IH
WK071	WKT9	27/05/2021	21:44	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK072	WKT9	27/05/2021	21:44	Woodcock	1	conifer plantation and cutover bog, seen and heard roding, chasing bird above	IH
WK073	WKT9	27/05/2021	21:47	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH
WK074	WKT9	27/05/2021	21:52	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH
WK075	WKT9	27/05/2021	21:57	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH
WK076	WKT9	27/05/2021	21:59	Woodcock	1	conifer plantation and cutover bog, heard roding, not seen	IH
WK077	WKT9	27/05/2021	22:03	Woodcock	1	conifer plantation and cutover bog,	IH
WK078	WKT9	27/05/2021	22:06	Woodcock	1	conifer plantation and cutover bog,	IH
WK079	WKT9	27/05/2021	22:07	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH
WK080	WKT9	27/05/2021	22:19	Woodcock	1	conifer plantation and cutover bog, seen and heard roding	IH
WK081	WKT7	09/06/2021	21:21	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK082	WKT7	09/06/2021	21:27	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK084	WKT7	09/06/2021	21:28	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK089	WKT7	09/06/2021	21:29	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK083	WKT7	09/06/2021	21:34	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK087	WKT7	09/06/2021	21:34	Woodcock	1	bogs and highly modified/non-native woodland, roding, one of two recorded at 21:34	TR
WK086	WKT7	09/06/2021	21:37	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK085	WKT7	09/06/2021	21:38	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK090	WKT7	09/06/2021	21:43	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK088	WKT7	09/06/2021	21:52	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK091	WKT7	09/06/2021	22:02	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK097	WKT7	09/06/2021	22:14	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK096	WKT7	09/06/2021	22:19	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK098	WKT7	09/06/2021	22:19	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK092	WKT7	09/06/2021	22:21	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK094	WKT7	09/06/2021	22:21	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK099	WKT7	09/06/2021	22:22	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK093	WKT7	09/06/2021	22:23	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK095	WKT7	09/06/2021	22:23	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK100	WKT7	09/06/2021	22:40	Woodcock	2	bogs and highly modified/non-native woodland, roding, pair chasing	TR
WK101	WKT7	10/06/2021	22:18	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK102	WKT7	10/06/2021	22:22	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK103	WKT7	10/06/2021	22:24	Woodcock	2	bogs and highly modified/non-native woodland, chasing	TR
WK104	WKT7	10/06/2021	22:28	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK105	WKT7	10/06/2021	22:30	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK106	WKT7	10/06/2021	22:32	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK107	WKT7	10/06/2021	22:36	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK108	WKT7	10/06/2021	22:39	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK109	WKT7	10/06/2021	22:43	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK110	WKT3	10/06/2021	22:50	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK112	WKT3	17/06/2021	22:41	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK111	WKT3	17/06/2021	22:50	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK113	WKT3	17/06/2021	23:00	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK114	WKT6	21/06/2021	22:30	Woodcock	1	bogs, roding	TR
WK116	WKT6	21/06/2021	22:41	Woodcock	1	bogs, roding	TR
WK115	WKT6	21/06/2021	22:45	Woodcock	1	bogs, roding	TR
WK117	WKT6	21/06/2021	22:59	Woodcock	1	bogs, roding	TR
WK118	WKT10	22/06/2021	22:23	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK119	WKT10	22/06/2021	22:35	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK120	WKT10	22/06/2021	22:35	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK121	WKT10	22/06/2021	22:37	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK122	WKT10	22/06/2021	22:40	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK123	WKT10	22/06/2021	22:42	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK124	WKT10	22/06/2021	22:54	Woodcock	2	bogs and highly modified/non-native woodland, chasing	TR
WK125	WKT11	23/06/2021	22:21	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK126	WKT11	23/06/2021	22:28	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK127	WKT11	23/06/2021	22:41	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK128	WKT11	23/06/2021	22:45	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK129	WKT1	28/06/2021	22:01	Woodcock	1	raised bog and cutover bog, seen and heard roding	IH
WK130	WKT1	28/06/2021	22:14	Woodcock	1	raised bog and cutover bog, seen and heard roding	IH
WK131	WKT1	28/06/2021	22:29	Woodcock	1	raised bog and cutover bog, seen and heard roding	IH
WK132	WKT1	28/06/2021	22:38	Woodcock	1	raised bog and cutover bog, heard roding not seen	IH
WK133	WKT1	28/06/2021	22:43	Woodcock	1	raised bog and cutover bog, seen and heard roding	IH
WK134	WKT1	28/06/2021	22:52	Woodcock	1	raised bog and cutover bog, seen and heard roding	IH
WK135	WKT11	30/06/2021	22:26	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK136	WKT11	30/06/2021	22:27	Woodcock	1	bogs and highly modified/non-native woodland, roding, bird dives down into trees, second follows within a few seconds on same transect yet continues flight path.	TR
WK137	WKT11	30/06/2021	22:36	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK138	WKT11	30/06/2021	22:37	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK139	WKT11	30/06/2021	22:50	Woodcock	1	bogs and highly modified/non-native woodland, roding	TR
WK140	WKT8	03/05/2022	20:58	Woodcock	2	cutover bog and mixed broadleaved/conifer woodland, roding	KS
WK141	WKT8	03/05/2022	21:15	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding	KS
WK142	WKT8	03/05/2022	21:32	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding	KS
WK143	WKT9	09/05/2022	21:42	Woodcock	2	cutover bog, roding, 2 birds minimum	KS
WK144	WKT10	15/05/2022	21:53	Woodcock	1	mixed broadleaved/conifer woodland and cutover bog, roding	KS
WK145	WKT11	17/05/2022	21:36	Woodcock	1	mixed broadleaved/conifer woodland and cutover bog, roding	KS
WK146	WKT11	17/05/2022	21:48	Woodcock	1	mixed broadleaved/conifer woodland and cutover bog, roding	KS
WK147	WKT7	23/05/2022	21:30	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding	DM
WK148	WKT7	23/05/2022	21:37	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding	DM
WK149	WKT7	23/05/2022	21:37	Woodcock	2	cutover bog and mixed broadleaved/conifer woodland, roding	DM
WK150	WKT7	23/05/2022	21:46	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding	DM
WK151	WKT7	23/05/2022	21:53	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding	DM
WK152	WKT7	23/05/2022	21:57	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding	DM
WK153	WKT7	23/05/2022	22:10	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland, roding	DM
WK154	WKT8	07/06/2022	21:40	Woodcock	1	heath and scrub, roding	EF
WK155	WKT8	07/06/2022	21:40	Woodcock	1	heath and scrub, roding, about 30 sec after the first bird	EF

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK156	WKT8	07/06/2022	21:45	Woodcock	1	heath and scrub, roding	EF
WK157	WKT8	07/06/2022	21:50	Woodcock	1	heath and scrub, roding	EF
WK158	WKT8	07/06/2022	21:50	Woodcock	1	heath and scrub, roding, about 50 sec after map ref 4	EF
WK159	WKT8	07/06/2022	21:55	Woodcock	2	heath and scrub, calling, 2 birds flying together calling	EF
WK160	WKT8	07/06/2022	22:05	Woodcock	1	heath and scrub, roding	EF
WK161	WKT8	07/06/2022	22:10	Woodcock	1	heath and scrub, roding	EF
WK162	WKT8	07/06/2022	22:55	Woodcock	1	heath and scrub, roding	EF
WK163	WKT1	09/06/2022	22:01	Woodcock	2	improved agricultural grassland and highly modified/non-native woodland, travelling	NM
WK164	WKT1	09/06/2022	22:08	Woodcock	1	highly modified/non-native woodland, improved agricultural grassland and scrub, roding	NM
WK165	WKT1	09/06/2022	22:09	Woodcock	1	improved agricultural grassland and highly modified/non-native woodland, roding	NM
WK166	WKT1	09/06/2022	22:16	Woodcock	1	highly modified/non-native woodland and cutover bog, roding	NM
WK167	WKT1	09/06/2022	22:17	Woodcock	1	highly modified/non-native woodland and cutover bog, roding	NM
WK168	WKT9	09/06/2022	22:20	Woodcock	1	cutover bog and scrub, roding	EF
WK169	WKT9	09/06/2022	22:22	Woodcock	1	cutover bog and scrub, roding	EF
WK170	WKT9	09/06/2022	22:25	Woodcock	1	cutover bog and scrub, roding	EF
WK171	WKT9	09/06/2022	22:50	Woodcock	1	cutover bog and scrub, roding	EF
WK172	WKT9	09/06/2022	22:51	Woodcock	1	cutover bog and scrub, roding	EF
WK173	WKT6	10/06/2022	23:00	Woodcock	1	cutover bog, roding	NM
WK174	WKT3	13/06/2022	22:00	Woodcock	1	conifer plantation and bogs, roding	NM
WK175	WKT3	13/06/2022	22:04	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK176	WKT3	13/06/2022	22:11	Woodcock	1	cutover bog and conifer plantation, roding	NM

Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK177	WKT3	13/06/2022	22:13	Woodcock	1	cutover bog and conifer plantation, roding	NM
WK178	WKT10	13/06/2022	22:30	Woodcock	1	cutover bog and scrub, roding	EF
WK179	WKT3	13/06/2022	22:34	Woodcock	1	conifer plantation, roding	NM
WK180	WKT3	13/06/2022	22:40	Woodcock	1	conifer plantation, roding	NM
WK181	WKT7	15/06/2022	22:12	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK182	WKT7	15/06/2022	22:14	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK183	WKT7	15/06/2022	22:20	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK184	WKT7	15/06/2022	22:22	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK185	WKT7	15/06/2022	22:32	Woodcock	1	bogs and conifer plantation, roding	NM
WK186	WKT7	15/06/2022	22:43	Woodcock	1	conifer plantation, roding	NM
WK187	WKT7	15/06/2022	23:04	Woodcock	1	cutover bog, flushed, unnerved with sparrowhawk call	NM
WK188	WKT11	16/06/2022	21:25	Woodcock	1	cutover bog and scrub, roding	EF
WK189	WKT11	16/06/2022	21:30	Woodcock	1	cutover bog and scrub, roding	EF
WK190	WKT9	16/06/2022	22:18	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK191	WKT9	16/06/2022	22:26	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK192	WKT9	16/06/2022	22:27	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK193	WKT9	16/06/2022	22:30	Woodcock	1	conifer plantation and scrub, roding	NM
WK194	WKT9	16/06/2022	22:41	Woodcock	1	cutover bog and conifer plantation, roding	NM
WK195	WKT10	28/06/2022	22:12	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK196	WKT10	28/06/2022	22:19	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK197	WKT11	29/06/2022	22:18	Woodcock	1	conifer plantation, improved agricultural grassland and cutover bog, roding	NM
WK198	WKT11	29/06/2022	22:31	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK199	WKT11	29/06/2022	22:41	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK200	WKT11	29/06/2022	22:43	Woodcock	1	cutover bog, roding	NM

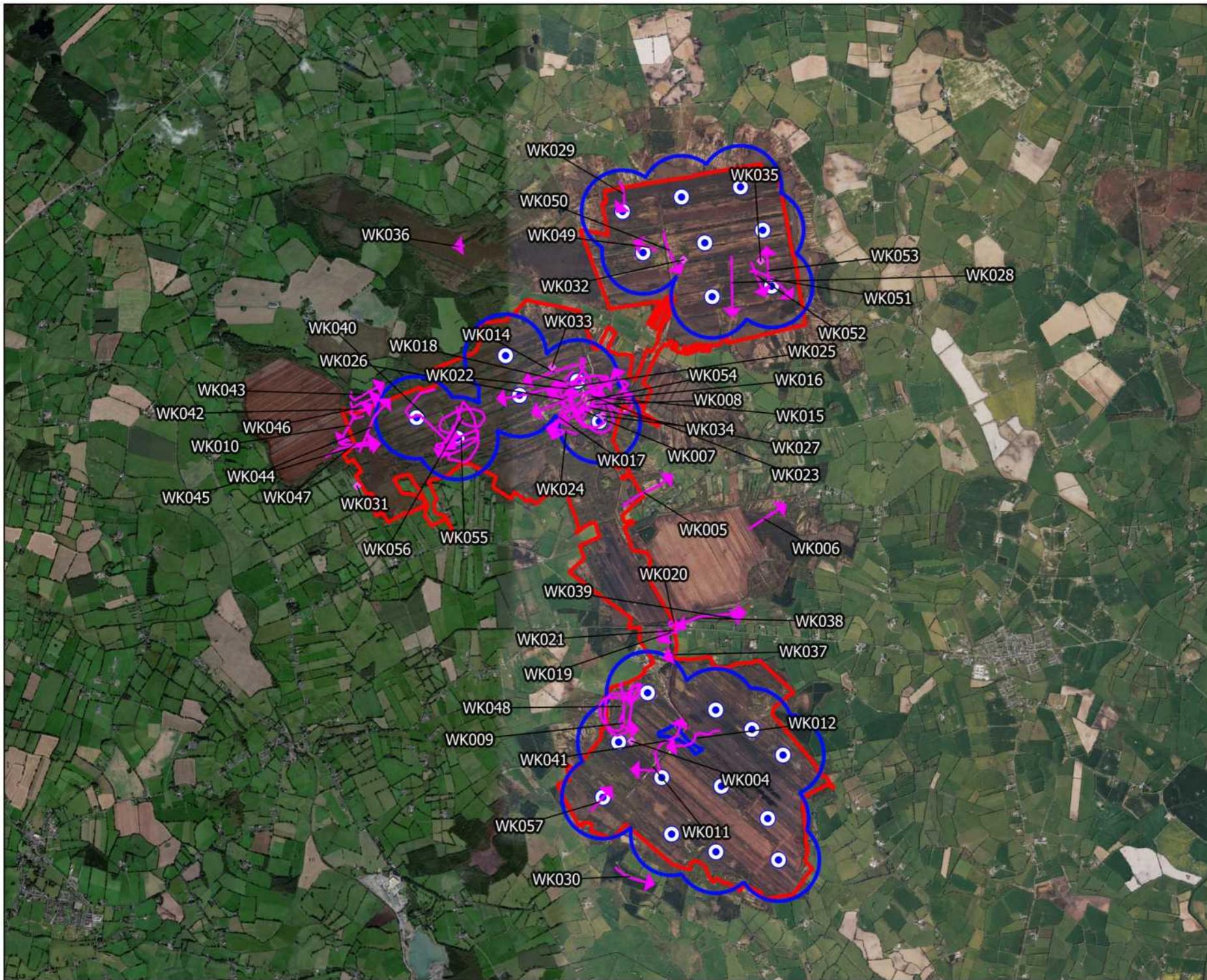
Breeding Woodcock Surveys							
Map Ref.	Transect	Date	Time	Species	Number	Habitat and activity	Surveyor
WK201	WKT11	29/06/2022	22:45	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK202	WKT11	29/06/2022	22:52	Woodcock	1	cutover bog and conifer plantation, roding	NM
WK203	WKT11	29/06/2022	23:06	Woodcock	1	conifer plantation and cutover bog, roding	NM
WK204	WKT8	30/06/2022	22:30	Woodcock	2	conifer plantation and cutover bog, roding	NM
WK205	WKT8	30/06/2022	22:48	Woodcock	1	conifer plantation, roding	NM
WK206	WKT8	30/06/2022	23:02	Woodcock	1	cutover bog and conifer plantation, roding	NM

Waterbird Distribution Surveys							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
WK001	Annalla Lakes	12/01/2021	11:30	Woodcock	2	mixed broadleaved/conifer woodland; roosting, woodland beside lake	DM
WK002	Annalla Lakes	28/01/2021	13:00	Woodcock	1	mixed broadleaved/conifer woodland; roosting, woodland beside lake	DM
WK003	Reynella lake	26/11/2021	14:30	Woodcock	1	mixed broadleaved/conifer woodland; roosting	DM

Connectivity Vantage Point								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
WK001	CMVP1	19/02/2021	18:20	Woodcock	1	30	cutover bog; travelling, leaving bog to feed	DM
WK002	CMVP1	16/05/2021	04:34	Woodcock	2	30	cutover bog and mixed broadleaved/conifer woodland; chasing each other, possibly two males	DM
WK003	CMVP2	24/11/2021	17:08	Woodcock	1	15	improved agricultural grassland and buildings and artificial surfaces; flying, flew across VP	TS

Incidentals Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
WK001	Vantage Point Survey, at car before heading to VP	17/03/2021	05:25	Woodcock	1	cutover bog and scrub; roding	KB
WK002	Vantage Point Survey, at car before heading to VP	24/03/2021	05:10	Woodcock	1	improved agricultural grassland and mixed conifer woodland; roding	KB
WK003	Vantage Point Survey, on way to car from VP16	21/04/2021	21:49	Woodcock	1	mixed broadleaved/conifer woodland; roding	KB
WK004	Vantage Point Survey, on way to car from VP16	21/04/2021	21:53	Woodcock	1	mixed broadleaved/conifer woodland and improved agricultural grassland; roding	KB
WK005	Vantage Point Survey, VP3	20/05/2021	04:25	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland; on road as I reached VP	DM
WK006	Vantage Point Survey, VP2	21/05/2021	04:25	Woodcock	2	cutover bog and mixed broadleaved/conifer woodland; one on road and second circling above it, as I drove to VP2	DM
WK007	Vantage Point Survey, VP2	21/05/2021	04:26	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland; on bog road, as I drove to VP2	DM
WK008	Vantage Point Survey, VP7	22/05/2021	04:20	Woodcock	1	cutover bog and mixed broadleaved/conifer woodland; on road near VP	DM
WK009	Vantage Point Survey, 500m S from VP10	28/11/2021	17:20	Woodcock	1	scrub and cutover bog; near the rail turn, not mapped	TS
WK010	Vantage Point Survey, 300m E of VP6	11/12/2021	10:35	Woodcock	1	cutover bog; flushed while walking	TS
WK011	Vantage Point Survey, near lake 500m N of VP9	16/12/2021	10:45	Woodcock	1	cutover bog, mixed broadleaved/conifer woodland and acid oligotrophic lakes; flushed	TS
WK012	Vantage Point Survey, VP7	26/01/2022	18:05	Woodcock	1	cutover bog; travelling, woodcock flushed overheard	NM
WK013	Vantage Point Survey, VP12	15/02/2022	07:29	Woodcock	1	bogs; flying across road	EH
WK014	Hen Harrier Roost Survey, HHVP1	17/02/2022	07:50	Woodcock	1	cutover bog; calling	NM
WK015	Vantage Point Survey, model flying club	01/03/2022	19:03	Woodcock	1	bogs, mixed broadleaved/conifer woodland and scrub; roding	JM
WK016	Vantage Point Survey, Clonleame	02/03/2022	18:45	Woodcock	2	bogs and scrub; travelling	JM
WK017	Vantage Point Survey, woodland halfway between VP13 and VP14	15/03/2022	19:40	Woodcock	2	scrub and cutover bog; calling, flying	TS
WK018	Breeding Woodcock Survey, WKT11	29/06/2022	22:08	Woodcock	1	conifer plantation and improved agricultural grassland; roding	NM
WK019	Breeding Woodcock Survey, WKT8	30/06/2022	22:10	Woodcock	1	bogs and conifer plantation; roding	NM

Incidentals Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
WK020	Breeding Woodcock Survey, WKT8	30/06/2022	22:15	Woodcock	1	cutover bog and conifer plantation; roding	NM
WK021	Breeding Woodcock Survey, WKT8	30/06/2022	22:19	Woodcock	1	cutover bog and conifer plantation; roding	NM



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline
- ◆ Observation



Drawing Title

Woodcock Observations
Vantage Point Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.1.15

Scale

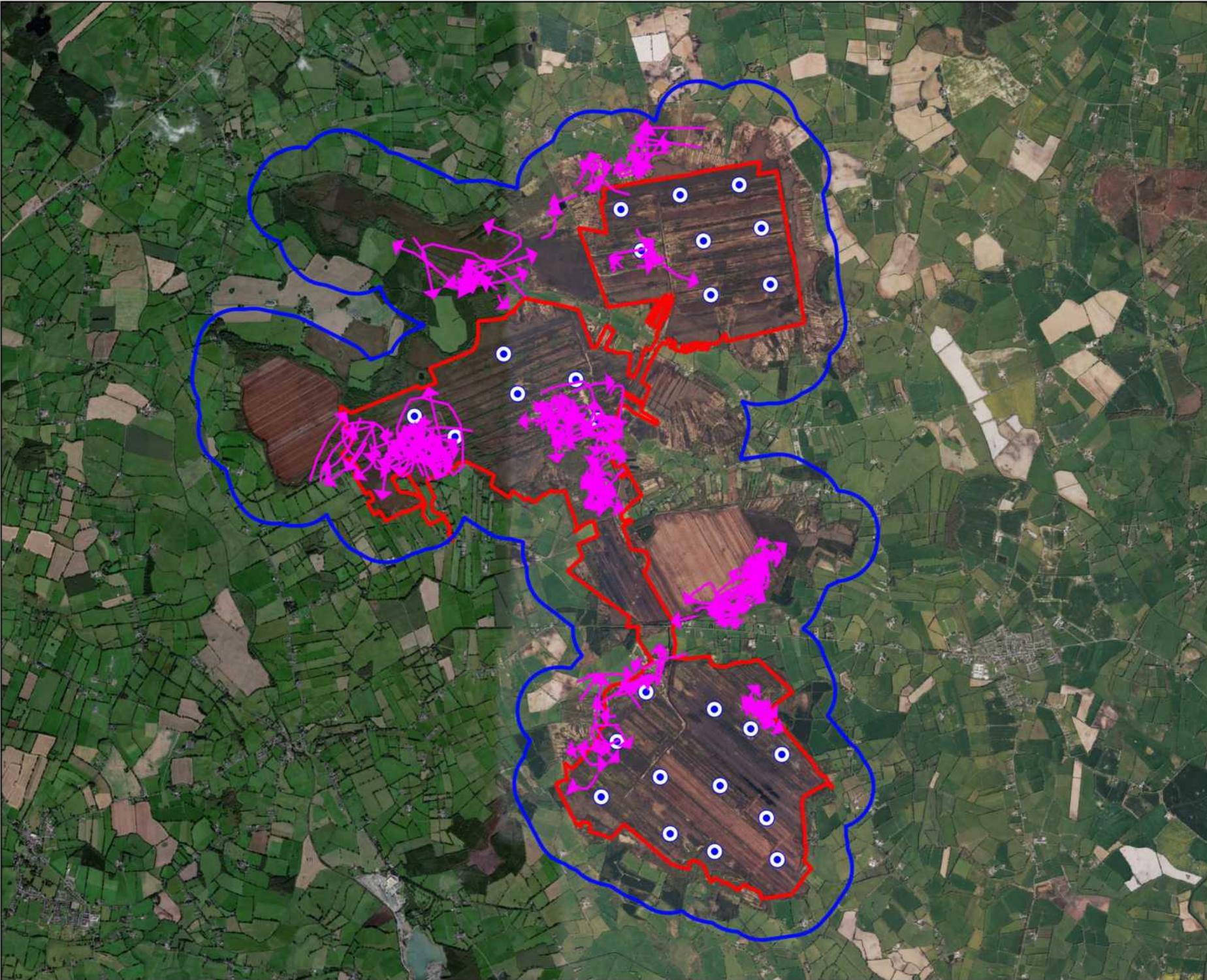
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Date

14.02.23



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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline

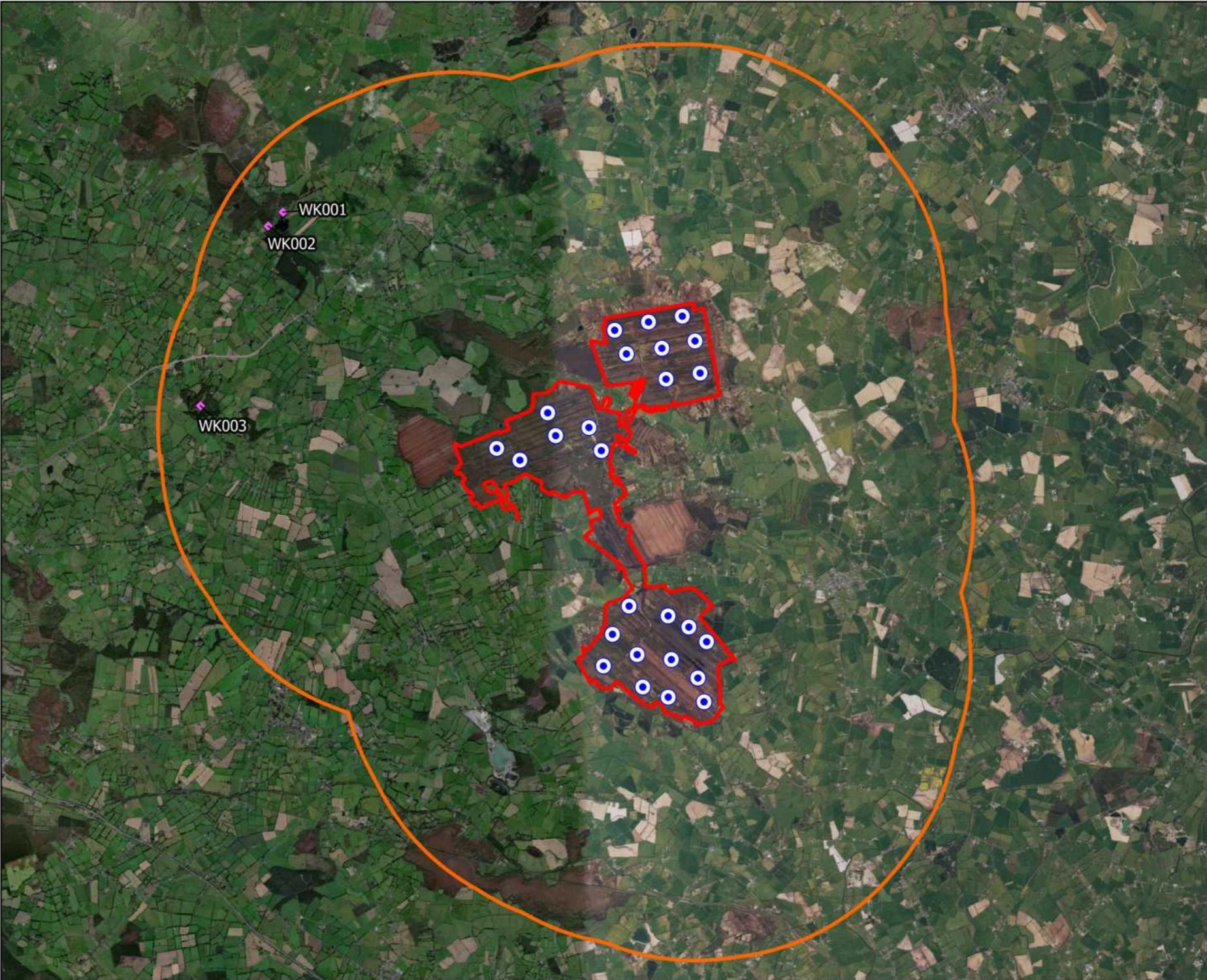


Woodcock Observations
Breeding Woodcock Surveys

Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.5.1
Scale 1:60000	Date 14.02.23

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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Survey Area
-  Observation



Drawing Title
**Woodcock Observations
 Waterbird Distribution Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.8.8
Scale 1:105000	Date 14.02.23



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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Connectivity Vantage Point Survey Location
-  Flightline



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Drawing Title
**Woodcock Observations
 Connectivity VP Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.9.9
Scale 1:105000	Date 14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline



<p>Woodcock Incidental Observations</p>	
<p>Ballivor Wind Farm</p>	
<p>Drawn By P. Manley</p>	<p>Checked By P. Cregg</p>
<p>Project No. 191137</p>	<p>Drawing No. Fig. 7.12.12</p>
<p>Scale 1:60000</p>	<p>Date 14.02.23</p>
<p>MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VV84 +353 (0) 91 735611 email: info@mkofireland.ie Website: www.mkofireland.ie</p>	

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Table 17 Buzzard Survey Data

Vantage Point Surveys												
Map 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
BZ047	VP16	20/04/2020	11:20	Buzzard	1	10	10				bogs and bog woodland; soaring over viewpoint before disappearing outside of VP, not sure what habitat code covers the bog at VP. same comment for all observations below.	PC
BZ048	VP16	20/04/2020	11:40	Buzzard	4	70	20	25	25		bogs and bog woodland; soaring over viewpoint before disappearing outside of VP	PC
BZ049	VP16	20/04/2020	12:00	Buzzard	1	55	55				bogs and bog woodland; travelling over VP	PC
BZ050	VP14	21/04/2020	12:30	Buzzard	1	35			35		bogs and bog woodland; soaring over viewpoint before disappearing outside of VP	PC
BZ051	VP12	22/04/2020	10:20	Buzzard	1	90	10	30	50		bog woodland; soaring over woodland, then display flight before landing in woodland. looked like second bird was in the trees but not seen clearly.	PC
BZ052	VP12	22/04/2020	11:00	Buzzard	1	85	10	5	70		bog woodland; soaring over same woodland as previous sighting from this VP.	PC
BZ053	VP11	22/04/2020	11:50	Buzzard	1	75	20	50	5		bogs and bog woodland; mobbed by hooded crow whilst soaring	PC
BZ054	VP11	22/04/2020	12:30	Buzzard	1	55		55			bogs and bog woodland; soaring	PC
BZ055	VP11	22/04/2020	13:30	Buzzard	3	61		61				PC
BZ056	VP9	23/04/2020	12:35	Buzzard	1	61		61			bogs; travelling over VP	PC
BZ057	VP8	27/04/2020	12:40	Buzzard	1	133	10	30	93		bog woodland and bogs; soaring then travelling over VP	PC
BZ058	VP3	28/04/2020	10:55	Buzzard	2	154		25	50	79	woodland and scrub and lowland blanket bog; soaring and calling together	PC

Vantage Point Surveys												
Map 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
BZ059	VP1	30/04/2020	14:05	Buzzard	2	10	10				woodland and scrub; pair came out of trees and soared out of viewshed	PC
BZ083	VP6	05/05/2020	08:21	Buzzard	2	118	109	9			bog woodland; low soaring, being mobbed by pair of hooded crows which forced buzzards down into woodland	PC
BZ084	VP5	07/05/2020	09:20	Buzzard	1	205		114	91		bogs and bog woodland; soaring and travelling over viewshed.	PC
BZ085	VP1	11/05/2020	06:40	Buzzard	1	27	27				bog woodland; 1 bird mobbed by 2 hooded crows and forced back down into woodland	PC
BZ086	VP1	11/05/2020	06:40	Buzzard	1	10	10				bog woodland; second bird came out of woodland with BZ002 but flew off in SW direction. lost sight of it very quickly	PC
BZ087	VP1	11/05/2020	08:22	Buzzard	2	23	23				bog woodland; pair came out of forestry, circled for 20 secs then dropped below tree line	PC
BZ088	VP1	11/05/2020	09:09	Buzzard	2	75	10	11	54		bog woodland; soaring over forestry where previous buzzard was seen; lost due to height of soaring	PC
BZ089	VP1	11/05/2020	09:36	Buzzard	1	68	20	48			bog woodland; soaring but didn't gain much height	PC
BZ060	VP10	11/05/2020	09:45	Buzzard	1	65			65		mixed broadleaved/conifer woodland and cutover bog; hunting, descended below treeline	DM
BZ090	VP1	11/05/2020	09:46	Buzzard	2	128	26	62			bog woodland; pair soaring over forestry, mobbed by sparrowhawk	PC
BZ061	VP10	11/05/2020	09:53	Buzzard	1	600			300	300	mixed broadleaved/conifer woodland and cutover bog; hunting, circling/hovering	DM

Vantage Point Surveys												
Map 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
BZ062	VP10	11/05/2020	10:36	Buzzard	1	180			180		mixed broadleaved/conifer woodland and cutover bog; hunting, mobbed by HC	DM
BZ063	VP12	12/05/2020	08:35	Buzzard	1	60			60		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
BZ064	VP12	12/05/2020	10:15	Buzzard	2	250			150	100	mixed broadleaved/conifer woodland and cutover bog; circling	DM
BZ065	VP13	13/05/2020	07:21	Buzzard	1	30		30			mixed broadleaved/conifer woodland and cutover bog; travelling, descended below treeline	DM
BZ066	VP13	13/05/2020	08:33	Buzzard	1	240		120	120		mixed broadleaved/conifer woodland and cutover bog; circling, landed in tree	DM
BZ067	VP13	13/05/2020	08:43	Buzzard	1	300		50	150	100	mixed broadleaved/conifer woodland and cutover bog; circling, descended into woodland	DM
BZ068	VP13	13/05/2020	08:52	Buzzard	1	45		25	20		mixed broadleaved/conifer woodland and cutover bog; hunting, descended below treeline	DM
BZ069	VP13	13/05/2020	09:12	Buzzard	1	60		60			mixed broadleaved/conifer woodland and cutover bog; hunting, descended below treeline	DM
BZ070	VP13	13/05/2020	09:22	Buzzard	1	240		100	140		mixed broadleaved/conifer woodland and cutover bog; circling	DM
BZ071	VP14	14/05/2020	06:25	Buzzard	1	60		60			mixed broadleaved/conifer woodland and cutover bog; travelling	DM
BZ072	VP14	14/05/2020	08:54	Buzzard	1	300		50	200	50	mixed broadleaved/conifer woodland and cutover bog; circling	DM
BZ073	VP14	14/05/2020	09:34	Buzzard	1	75			75		mixed broadleaved/conifer woodland and cutover bog; circling	DM
BZ074	VP14	14/05/2020	09:40	Buzzard	1	60			30	30	mixed broadleaved/conifer woodland and cutover bog; circling	DM

Vantage Point Surveys												
Map 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
BZ075	VP14	14/05/2020	10:03	Buzzard	3	180			100	80	mixed broadleaved/conifer woodland and cutover bog; circling	DM
BZ076	VP14	14/05/2020	10:12	Buzzard	1	360			180	180	mixed broadleaved/conifer woodland and cutover bog; hunting	DM
BZ077	VP15	18/05/2020	08:20	Buzzard	2	30		30			mixed broadleaved/conifer woodland and cutover bog; travelling, descended below treeline	DM
BZ091	VP8	19/05/2020	05:45	Buzzard	1	28	28				bog woodland and bogs; travelled low over viewshed, mobbed by hooded crow	PC
BZ078	VP11	19/05/2020	08:00	Buzzard	1	65		65			mixed broadleaved/conifer woodland and cutover bog; travelling, mobbed by HC	DM
BZ092	VP8	19/05/2020	10:04	Buzzard	1	21		15	6		bog woodland and bogs; soaring over viewshed, then lost in distance after climbing	PC
BZ079	VP11	19/05/2020	10:43	Buzzard	1	360		100	260		mixed broadleaved/conifer woodland and cutover bog; circling, then travelling	DM
BZ093	VP8	19/05/2020	11:40	Buzzard	1	63		32	31		bog woodland and bogs; lost over woodland	PC
BZ080	VP16	20/05/2020	08:46	Buzzard	1	55			55		mixed broadleaved/conifer woodland and cutover bog; hunting, descended below treeline	DM
BZ094	VP3	20/05/2020	09:35	Buzzard	1	46	9	37			bog woodland; hovering, then travelling short distance before hovering again. repeated this 4 times then dropped into woodland.	PC
BZ095	VP3	20/05/2020	09:42	Buzzard	1	47	5	28	14		bog woodland; flew out of woods opposite VP (same patch as previous buzzard emerged from) then travelled across viewshed	PC

Vantage Point Surveys												
Map 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
BZ096	VP3	20/05/2020	10:00	Buzzard	1	67		25	42		bog woodland; travelled across viewshed then soared. lost against clouds.	PC
BZ097	VP3	20/05/2020	10:24	Buzzard	1	199		34	106	59	bog woodland and bogs; travelled across viewshed then soared. lost against clouds, way up in sky.	PC
BZ081	VP16	20/05/2020	10:42	Buzzard	2	420		60	120	240	mixed broadleaved/conifer woodland and cutover bog; circling	DM
BZ098	VP3	20/05/2020	10:45	Buzzard	1	221		100	116	5	bog woodland and bogs; soaring and hovering then stooped into woodland. came back out, seemed to be carrying something but couldn't see what it was. lost over woods opposite VP.	PC
BZ099	VP3	20/05/2020	11:01	Buzzard	1	59	14	45			bog woodland and bogs; same bird as previous reappeared, still carrying something. mobbed by hooded crow then dropped into woodland.	PC
BZ082	VP9	21/05/2020	10:53	Buzzard	1	420		20	200	200	mixed broadleaved/conifer woodland and cutover bog; hunting	DM
BZ100	VP2	21/05/2020	11:00	Buzzard	1	45		35	10		bog woodland; soaring over wooded area quite a way from VP. lost in the distance.	PC
BZ101	VP2	21/05/2020	11:05	Buzzard	1	81		38	22	21	bog woodland; soaring and gliding over woodland, assumed to be same bird as BZ008. mobbed by corvid, lost in distance as bird climbed on thermal.	PC
BZ102	VP7	25/05/2020	10:12	Buzzard	1	69			69		bog woodland; soaring in distance, lost in glare of sky.	PC
BZ133	VP4	02/06/2020	09:43	Buzzard	1	83	15				bog woodland and bogs; travelled low over viewshed, then started soaring	PC

Vantage Point Surveys												
Map 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
											over viewshed 5. didn't see where it came from.	
BZ103	VP10	02/06/2020	14:54	Buzzard	2	300			150	150	cutover bog and mixed broadleaved/conifer woodland; circling	DM
BZ104	VP10	02/06/2020	15:30	Buzzard	1	200		50	150		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ105	VP10	02/06/2020	15:37	Buzzard	1	150		150			cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ106	VP10	02/06/2020	15:53	Buzzard	1	460			300	160	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ107	VP10	02/06/2020	17:16	Buzzard	1	30		30			cutover bog and mixed broadleaved/conifer woodland; hunting, mobbed by HC's	DM
BZ108	VP10	02/06/2020	17:45	Buzzard	1	75			75		cutover bog and mixed broadleaved/conifer woodland; travelling	DM
BZ109	VP10	02/06/2020	19:38	Buzzard	1	540		200	340		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ134	VP6	03/06/2020	07:00	Buzzard	1	29		29			bog woodland; soaring over viewshed until it disappeared, not sure where it went	PC
BZ135	VP6	03/06/2020	10:15	Buzzard	1	97	97				cutover bog and bog woodland; travelled very low over viewshed from woodland opposite VP6. seemed to be struggling flying into the wind. lost behind VP.	PC

Vantage Point Surveys												
Map 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
BZ136	VP6	03/06/2020	10:29	Buzzard	1	5	5				bog woodland; very brief glimpse of bird flying over trees that line Ballyhealy road. lost behind trees.	PC
BZ137	VP6	03/06/2020	10:44	Buzzard	1	421	20	63	338		bog woodland; came out of woodland opposite VP, soaring and gliding over viewshed. lost after it had climbed to considerable height.	PC
BZ138	VP6	03/06/2020	11:30	Buzzard	1	51	51				bog woodland; mobbed by 2 hooded crows over woodland opposite VP before dropping below treeline.	PC
BZ110	VP13	03/06/2020	14:51	Buzzard	1	300		100	200		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ111	VP13	03/06/2020	15:35	Buzzard	1	180			180		cutover bog and mixed broadleaved/conifer woodland; travelling	DM
BZ112	VP13	03/06/2020	15:58	Buzzard	1	300		150	150		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ113	VP13	03/06/2020	16:25	Buzzard	1	60		60			cutover bog and mixed broadleaved/conifer woodland; hunting, descended below tree line	DM
BZ114	VP13	03/06/2020	16:30	Buzzard	1	120		60	60		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ115	VP13	03/06/2020	17:35	Buzzard	1	60		60			cutover bog and mixed broadleaved/conifer woodland; hunting, descended below tree line	DM
BZ116	VP13	03/06/2020	18:55	Buzzard	1	90		30	60		cutover bog and mixed broadleaved/conifer woodland; hunting, dropped into forestry	DM

Vantage Point Surveys												
Map 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
BZ139	VP5	04/06/2020	09:44	Buzzard	1	49	49				bog woodland and bogs; travelled across viewshed from direction of viewshed 6	PC
BZ117	VP12	04/06/2020	14:47	Buzzard	1	300			200	100	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ118	VP12	04/06/2020	17:33	Buzzard	1	240			240		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ119	VP12	04/06/2020	17:54	Buzzard	2	480			480		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ120	VP12	04/06/2020	19:35	Buzzard	1	30		30			cutover bog and mixed broadleaved/conifer woodland; travelling, flew low behind trees	DM
BZ121	VP11	05/06/2020	14:35	Buzzard	1	35	5	30			cutover bog and mixed broadleaved/conifer woodland; hunting, dropped into forestry	DM
BZ122	VP11	05/06/2020	16:30	Buzzard	1	45		45			cutover bog and mixed broadleaved/conifer woodland; hunting, flew low behind trees	DM
BZ123	VP11	05/06/2020	17:28	Buzzard	1	145		45	100		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ124	VP11	05/06/2020	17:45	Buzzard	1	75			75		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ125	VP11	05/06/2020	18:34	Buzzard	1	540		40	500		cutover bog and mixed broadleaved/conifer woodland; hunting, descended to woodland	DM

Vantage Point Surveys												
Map 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
BZ126	VP11	05/06/2020	19:50	Buzzard	1	120		20	100		cutover bog and mixed broadleaved/conifer woodland; hunting, descended to woodland	DM
BZ127	VP11	05/06/2020	20:12	Buzzard	1	65		15	50		cutover bog and mixed broadleaved/conifer woodland; hunting, descended to woodland	DM
BZ140	VP1	08/06/2020	08:46	Buzzard	1	78	31	47			bog woodland; flew out of trees on Bracklin side of bog, circled a few times then settled in trees.	PC
BZ141	VP1	08/06/2020	09:30	Buzzard	1	7	7				bog woodland and bogs; flew low over viewshed then disappeared over trees. heard calling but no longer visible.	PC
BZ142	VP1	08/06/2020	11:36	Buzzard	1	5	5				bog woodland; heard first then briefly seen circling over trees near VP before stooping below treeline.	PC
BZ143	VP7	10/06/2020	10:03	Buzzard	1	124		51	73		bog woodland; spotted over woodland towards Bracklin, climbed on thermal then lost to the west of VP	PC
BZ144	VP7	10/06/2020	11:22	Buzzard	1	3	3				bog woodland; brief glimpse of bird coming off viewshed 8 to west of VP. disappeared behind treeline almost immediately.	PC
BZ145	VP7	10/06/2020	11:34	Buzzard	1	18	18				bog woodland; glided along treeline opposite VP then turned north and disappeared behind treeline	PC
BZ146	VP3	15/06/2020	10:07	Buzzard	1	121		121			mixed broadleaved/conifer woodland; spotted soaring to NE of VP. travelled over woodland in front of VP.	PC
BZ147	VP3	15/06/2020	10:07	Buzzard	1	93	93				mixed broadleaved/conifer woodland; soaring under BZ002. continued soaring in same spot over woodland to	PC

Vantage Point Surveys												
Map 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
											NE of VP when BZ002 travelled over viewshed. lost sight of both birds trying to keep tabs on them both.	
BZ148	VP3	15/06/2020	10:33	Buzzard	2	97	37	35	25		mixed broadleaved/conifer woodland; soaring together over woodland NW of VP then travelled east over viewshed. lost over woods N of VP.	PC
BZ149	VP3	15/06/2020	11:05	Buzzard	1	53	28	25			mixed broadleaved/conifer woodland; soaring over woodland, dropped into woods then came back out N of VP.	PC
BZ150	VP3	15/06/2020	11:08	Buzzard	2	28		28			mixed broadleaved/conifer woodland; pair soaring and calling together. one stooped back into woodland, the other travelled off of viewshed.	PC
BZ151	VP3	15/06/2020	11:45	Buzzard	2						mixed broadleaved/conifer woodland; pair calling, sounded like it was coming from woodland to NE of VP. no sighting of either bird.	PC
BZ152	VP8	16/06/2020	06:10	Buzzard	1	5	5				bog woodland; brief glimpse of bird coming off viewshed 8 to west of VP. disappeared behind treeline almost immediately.	PC
BZ128	VP15	16/06/2020	13:45	Buzzard	1	45		45			cutover bog and mixed broadleaved/conifer woodland; travelling, flew low behind trees	DM
BZ129	VP15	16/06/2020	17:18	Buzzard	1	360	10	10	340		cutover bog and mixed broadleaved/conifer woodland; hunting, descended onto bog	DM
BZ130	VP15	16/06/2020	19:00	Buzzard	1	30		30			cutover bog and mixed broadleaved/conifer woodland; travelling, flew low behind trees	DM

Vantage Point Surveys												
Map 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
BZ131	VP16	17/06/2020	13:57	Buzzard	1	660			660		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ132	VP9	22/06/2020	17:07	Buzzard	1	85			85		cutover bog and mixed broadleaved/conifer woodland; travelling	DM
BZ214	VP2	01/07/2020	10:42	Buzzard	1	53	13	40			bog woodland; travelled over viewshed before dropping into woodland opposite VP.	PC
BZ215	VP6	06/07/2020	06:43	Buzzard	1	99	41	58			bogs; came up out of woodland opposite VP, heading north. flapping hard against the wind.	PC
BZ216	VP6	06/07/2020	08:14	Buzzard	1	136		61	75		bogs and bog woodland; flew across viewshed from behind VP heading south. circled and hung in the air a couple of times. lost in the distance to south.	PC
BZ217	VP6	06/07/2020	08:55	Buzzard	1	47		47			bogs; came up out of woodland opposite VP, heading north. this was just before my break finished, but I recorded it anyway.	PC
BZ218	VP6	06/07/2020	10:03	Buzzard	1	26	26				bog woodland; appeared briefly above woodland opposite VP, hanging in the air and calling. dropped into woodland again.	PC
BZ219	VP6	06/07/2020	10:25	Buzzard	1	225	10	215			bog woodland; came over woodland opposite VP from west, circling and hanging in the air before dropping into woodland opposite VP. similar flight path to BZ007 but was in air a lot longer.	PC

Vantage Point Surveys												
Map 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
BZ153	VP10	08/07/2020	13:59	Buzzard	1	360			300	60	cutover bog and mixed broadleaved/conifer woodland; circling, not mapped	DM
BZ153	VP13	09/07/2020	09:39	Buzzard	1	120			120		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ154	VP13	09/07/2020	09:51	Buzzard	1	30		30			cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, not mapped	DM
BZ155	VP13	09/07/2020	11:13	Buzzard	1	90			90		cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, not mapped	DM
BZ156	VP13	09/07/2020	11:18	Buzzard	1	300			300		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ157	VP13	09/07/2020	12:23	Buzzard	1	65		25	40		cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, not mapped	DM
BZ158	VP13	09/07/2020	13:02	Buzzard	2	420			420		cutover bog and mixed broadleaved/conifer woodland; circling, not mapped	DM
BZ159	VP13	09/07/2020	13:39	Buzzard	3	180		20	160		cutover bog and mixed broadleaved/conifer woodland; circling- dropped into woodland, not mapped	DM
BZ160	VP13	09/07/2020	14:21	Buzzard	1	180			180		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM

Vantage Point Surveys												
Map 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
BZ161	VP14	10/07/2020	13:53	Buzzard	2	300			300		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ162	VP14	10/07/2020	14:11	Buzzard	1	75			75		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ163	VP14	10/07/2020	15:15	Buzzard	1	50		50			cutover bog and mixed broadleaved/conifer woodland; travelling, mobbed by hooded crows, not mapped	DM
BZ164	VP14	10/07/2020	16:25	Buzzard	1	25	25				cutover bog and mixed broadleaved/conifer woodland; perched on small pine tree the flew low into woodland, not mapped	DM
BZ165	VP14	10/07/2020	16:52	Buzzard	1	65	20	45			cutover bog and mixed broadleaved/conifer woodland; hunting and flew into birch woodland, not mapped	DM
BZ166	VP14	10/07/2020	16:55	Buzzard	1	75			75		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ167	VP15	13/07/2020	14:28	Buzzard	1	180			180		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ168	VP16	14/07/2020	09:07	Buzzard	1	280			280		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ169	VP16	14/07/2020	09:55	Buzzard	1	180			180		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ170	VP16	14/07/2020	10:11	Buzzard	1	40		40			cutover bog and mixed broadleaved/conifer woodland;	DM

Vantage Point Surveys												
Map 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
											hunting-descended below tree line, not mapped	
BZ171	VP16	14/07/2020	10:27	Buzzard	1	235		35	200		cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, not mapped	DM
BZ172	VP11	15/07/2020	10:39	Buzzard	1	50		50			cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, 2nd BZ on ESB pole-possible juv., not mapped	DM
BZ173	VP11	15/07/2020	12:11	Buzzard	1	300		150	150		cutover bog; hunting-dropped onto bog, not mapped	DM
BZ174	VP11	15/07/2020	12:18	Buzzard	1	600		200	400		cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, not mapped	DM
BZ175	VP11	15/07/2020	12:32	Buzzard	1	60		60			cutover bog; hunting-dropped onto bog, not mapped	DM
BZ176	VP11	15/07/2020	12:37	Buzzard	1	420		120	300		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ177	VP11	15/07/2020	12:54	Buzzard	1	780		80	400	300	cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ178	VP11	15/07/2020	14:11	Buzzard	1	360		180	180		cutover bog and mixed broadleaved/conifer woodland; hunting-descended below tree line, not mapped	DM
BZ179	VP11	15/07/2020	14:28	Buzzard	2	200			200		cutover bog and mixed broadleaved/conifer woodland; circling, not mapped	DM

Vantage Point Surveys												
Map 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
BZ180	VP12	21/07/2020	10:32	Buzzard	2	75		25	50		cutover bog and mixed broadleaved/conifer woodland; hunting-descended into woodland, not mapped	DM
BZ190	VP12	21/07/2020	12:35	Buzzard	1	300			300		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ191	VP12	21/07/2020	13:07	Buzzard	1	360			360		cutover bog and mixed broadleaved/conifer woodland; hunting landed on ESB pole, not mapped	DM
BZ192	VP12	21/07/2020	13:13	Buzzard	2	120		20	100		cutover bog and mixed broadleaved/conifer woodland; circling- descended below tree line, not mapped	DM
BZ193	VP12	21/07/2020	13:26	Buzzard	1	200			200		cutover bog and mixed broadleaved/conifer woodland; circling, not mapped	DM
BZ206	VP4	23/07/2020	12:25	Buzzard	1	70			70		peatlands; soaring, adult	ED
BZ207	VP5	23/07/2020	15:05	Buzzard	1	45			45		peatlands; soaring, adult	ED
BZ208	VP16	25/07/2020	11:42	Buzzard	1	35	35				conifer plantation and peatlands; soaring, flying, adult	ED
BZ194	VP9	28/07/2020	13:13	Buzzard	1	200			200		cutover bog and mixed broadleaved/conifer woodland; hunting-descended into woodland, not mapped	DM
BZ195	VP9	28/07/2020	13:40	Buzzard	1	45			45		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ196	VP9	28/07/2020	14:23	Buzzard	1	60			60		cutover bog and mixed broadleaved/conifer woodland;	DM

Vantage Point Surveys												
Map 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
											hunting-descended below tree line, not mapped	
BZ197	VP10	28/07/2020	15:57	Buzzard	1	45			45		cutover bog and mixed broadleaved/conifer woodland; hunting-descended into woodland, not mapped	DM
BZ198	VP10	28/07/2020	16:00	Buzzard	1	30	10	20			cutover bog and mixed broadleaved/conifer woodland; hunting-made kill in bracken and ate it on peat, not mapped	DM
BZ199	VP10	28/07/2020	16:02	Buzzard	1	60	10	20	30		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ200	VP10	28/07/2020	16:14	Buzzard	1	75			75		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ201	VP10	28/07/2020	16:35	Buzzard	1	150			150		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ202	VP10	28/07/2020	17:30	Buzzard	1	60			60		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ209	VP3	29/07/2020	11:05	Buzzard	1	15		15			peatlands; flying, juv.	ED
BZ210	VP3	29/07/2020	12:10	Buzzard	1	25		40			peatlands; flying, adult	ED
BZ211	VP3	29/07/2020	13:50	Buzzard	3	320		30	290		peatlands; soaring/hunting, family	ED
BZ212	VP3	29/07/2020	14:10	Buzzard	1	20		20			peatlands; flying	ED
BZ213	VP3	29/07/2020	15:55	Buzzard	1	20		20			peatlands; flying	ED
BZ203	VP11	30/07/2020	10:10	Buzzard	2	240			240		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM

Vantage Point Surveys												
Map 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
BZ204	VP11	30/07/2020	10:24	Buzzard	1	60		20	40		cutover bog and mixed broadleaved/conifer woodland; hunting-dropped onto bog, not mapped	DM
BZ205	VP11	30/07/2020	10:25	Buzzard	2	120			120		cutover bog and mixed broadleaved/conifer woodland; hunting, not mapped	DM
BZ223	VP5	06/08/2020	11:34	Buzzard	2	36		36			bog woodland and bogs; appeared behind K002 and K003 whilst they were still circling and hovering. flew southwest, lost in the gloom against the clouds. mad 5 minutes! not mapped	PC
BZ224	VP5	06/08/2020	14:17	Buzzard	1	6	6				bog woodland and bogs; flew out of trees south and headed into viewshed 6. only briefly in viewshed 5., not mapped	PC
BZ225	VP4	11/08/2020	11:35	Buzzard	1	7	7				bog woodland and bogs; very brief flight out of viewshed 5 into 4. very low, lost behind scrub and trees., not mapped	PC
BZ220	VP11	11/08/2020	16:40	Buzzard	1						mixed broadleaved/conifer woodland and cutover bog; perched on ESB pole	DM
BZ226	VP3	12/08/2020	12:19	Buzzard	2	266		70	196		bog woodland; picked them up in the sky, not sure where they came from. soaring together, eventually lost against the cloud cover., not mapped	PC
BZ227	VP3	12/08/2020	12:19	Buzzard	1	172		92	80		bog woodland; picked up slightly east of BZ002 at same time. headed east after gaining height., not mapped	PC

Vantage Point Surveys												
Map 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
BZ228	VP2	14/08/2020	16:03	Buzzard	1	139		68	71		bog woodland and bogs; flew over road from viewshed 5, behind VP and headed west soaring. lost against cloud cover., not mapped	PC
BZ237	VP15	18/08/2020	15:34	Buzzard	2	110			110		cutover bog; circling, height 60-90m; separated to flights 2 & 3	PT
BZ238	VP15	18/08/2020	15:36	Buzzard	1	750			750		cutover bog, bog woodland and improved agricultural grassland; circling/drifted; dropped to join another at end of flight (obs.no.7), height variable, 30-200m	PT
BZ239	VP15	18/08/2020	15:36	Buzzard	1	220			220		cutover bog; circling, height 60m → 25m	PT
BZ240	VP15	18/08/2020	15:39	Buzzard	2	30			30		cutover bog; new bird drifted in, circling above bird from obs.no.3, height 30m and 90m	PT
BZ241	VP15	18/08/2020	15:40	Buzzard	1	60			60		cutover bog; drifting, height c.35m	PT
BZ242	VP15	18/08/2020	15:40	Buzzard	1	105			105		cutover bog, woodland and scrub and improved agricultural grassland; drifting, height 90m → 80m	PT
BZ243	VP15	18/08/2020	15:58	Buzzard	2	95		10	50		woodland and scrub and improved agricultural grassland; drifting, bird from obs.no.6 joined another; height 50-70m, dropped at end of flight	PT
BZ244	VP15	18/08/2020	16:02	Buzzard	1	145		10	135		improved agricultural grassland, woodland and scrub and cutover bog; circling, drifting, height 70m, dropped at end of flight	PT
BZ245	VP15	18/08/2020	16:28	Buzzard	1	80			55		improved agricultural grassland, conifer plantation and raised bog; direct flight, height 100m → 60m	PT

Vantage Point Surveys												
Map 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
BZ246	VP15	18/08/2020	16:30	Buzzard	2	230			210		raised bog, woodland and scrub and improved agricultural grassland; circling together, bird from obs.no.13 with another; height 60m → 30m	PT
BZ221	VP14	22/08/2020	18:03	Buzzard	4	135			135		mixed broadleaved/conifer woodland and cutover bog; circling-family group	DM
BZ222	VP12	25/08/2020	19:42	Buzzard	2	300			300		mixed broadleaved/conifer woodland and cutover bog; hunting	DM
BZ229	VP1	27/08/2020	15:40	Buzzard	1	189	0	0	189	0	raised bog; travelling	PM
BZ230	VP1	27/08/2020	16:03	Buzzard	2	343	0	200	143	0	raised bog and mixed broadleaved/conifer woodland; circling	PM
BZ231	VP1	27/08/2020	16:12	Buzzard	1	107	0	0	107	0	improved agricultural grassland; circling	PM
BZ232	VP1	27/08/2020	16:26	Buzzard	1	128	0	128	0	0	mixed broadleaved/conifer woodland; hunting	PM
BZ233	VP1	27/08/2020	16:48	Buzzard	1	277	0	0	277	0	improved agricultural grassland; soaring	PM
BZ234	VP1	27/08/2020	17:32	Buzzard	1	199	0	0	199	0	improved agricultural grassland and mixed broadleaved/conifer woodland; soaring	PM
BZ235	VP1	27/08/2020	17:44	Buzzard	1	302	0	0	302	0	raised bog and mixed broadleaved/conifer woodland; hunting	PM
BZ236	VP1	27/08/2020	17:54	Buzzard	1	170	0	0	170	0	improved agricultural grassland; circling; calling	PM
BZ247	VP16	28/08/2020	16:09	Buzzard	1	55					improved agricultural grassland and treelines; circling/flying, height approx. 30m	PT
BZ248	VP1	29/08/2020	15:37	Buzzard	1	54			54		improved agricultural grassland and mixed broadleaved woodland;	PW

Vantage Point Surveys												
Map 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
											hanging in breeze over farmland and woods before dropping out of view.	
BZ249	VP1	29/08/2020	15:47	Buzzard	2	5			5		mixed broadleaved woodland; circling, (2x BZ picked up at PCH circling over woods when following SH from obs. no.3)	PW
BZ250	VP1	29/08/2020	15:56	Buzzard	1	120		5	115		mixed broadleaved woodland and raised bog; gliding and flying	PW
BZ251	VP1	29/08/2020	16:26	Buzzard	2	70		38	32		raised bog and conifer plantation; circling low down	PW
BZ252	VP1	29/08/2020	16:29	Buzzard	1							PW
BZ253	VP1	29/08/2020	16:35	Buzzard	1	8			8		raised bog and mixed broadleaved woodland; briefly appeared above trees at around 30m before dropping down below again out of view.	PW
BZ254	VP1	29/08/2020	16:46	Buzzard	3	175			175		arable crops, mixed broadleaved woodland and improved agricultural grassland; flying and gliding , between 16:46 and 17:02, 5 buzzards were observed on and off southwest of VP1, with at least 1 bird in view at all times. the times given for observations 11, 12, 13, 14, 15, 16, 17 and 18 represent the total number of buzzards in view at any one time during this period. so, they represent the minimum amount of flight time. birds were flying and gliding about at PCH with birds dropping below this out of view behind treelines. habitats assumed from aerial imagery.	PW

Vantage Point Surveys												
Map 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
BZ255	VP1	29/08/2020	16:47	Buzzard	1	153			153		raised bog, conifer plantation and mixed broadleaved woodland; flying and gliding. also, GA1 (improved agricultural grassland)	PW
BZ256	VP1	29/08/2020	16:49	Buzzard	5	210			210		conifer plantation, mixed broadleaved woodland and improved agricultural grassland; flying and gliding	PW
BZ257	VP1	29/08/2020	16:53	Buzzard	3	76			76		arable crops and hedgerows; flying and gliding	PW
BZ258	VP1	29/08/2020	16:54	Buzzard	4	24			24		arable crops, hedgerows and conifer plantation; flying and gliding	PW
BZ259	VP1	29/08/2020	16:56	Buzzard	2	325			325		arable crops, hedgerows and raised bog; flying and gliding. also, ga1 (improved agricultural grassland)	PW
BZ260	VP1	29/08/2020	17:01	Buzzard	1	45			45		raised bog and bog woodland; flying and gliding	PW
BZ261	VP1	29/08/2020	17:02	Buzzard	2	18			18		raised bog, bog woodland and improved agricultural grassland; flying and gliding	PW
BZ262	VP1	29/08/2020	17:26	Buzzard	1	114		45	69		raised bog and conifer plantation; flying. descended into conifers out of view.	PW
BZ263	VP1	29/08/2020	17:40	Buzzard	1	17		17			raised bog; flying	PW
BZ264	VP1	29/08/2020	17:47	Buzzard	1	7					raised bog and hedgerows; flying	PW
BZ265	VP10	08/09/2020	09:48	Buzzard	1	125			125		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ266	VP10	08/09/2020	12:05	Buzzard	1	150		50	100		cutover bog and mixed broadleaved/conifer woodland; hunting, descended below tree line	DM

Vantage Point Surveys												
Map 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
BZ267	VP11	09/09/2020	08:04	Buzzard	1	25		25			cutover bog and mixed broadleaved/conifer woodland; descended below tree line	DM
BZ268	VP11	09/09/2020	10:06	Buzzard	2	150			150		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ269	VP11	09/09/2020	10:24	Buzzard	1	250			250		cutover bog and mixed broadleaved/conifer woodland; hunting/circling, mobbed by SH	DM
BZ270	VP11	09/09/2020	11:02	Buzzard	4	75			75		cutover bog and mixed broadleaved/conifer woodland; travelling, descended below tree line	DM
BZ271	VP11	09/09/2020	11:45	Buzzard	3	75			75		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ272	VP7	10/09/2020	08:21	Buzzard	1	75			75		cutover bog and mixed broadleaved/conifer woodland; travelling	DM
BZ294	VP13	10/09/2020	14:39	Buzzard	1	100	0	100	0	0	mixed broadleaved/conifer woodland; travelling	PM
BZ273	VP13	15/09/2020	08:31	Buzzard	1	45		45			cutover bog and mixed broadleaved/conifer woodland; travelling-went behind tree line	DM
BZ274	VP14	16/09/2020	10:46	Buzzard	1	180			180		cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ275	VP14	16/09/2020	11:57	Buzzard	1	45			45		cutover bog and mixed broadleaved/conifer woodland; travelling	DM
BZ276	VP5	17/09/2020	11:45	Buzzard	1	36	0	36	0	0	cutover bog; travelling	DW
BZ277	VP4	22/09/2020	11:34	Buzzard	1	44	0	44	0	0	cutover bog; circling	DW

Vantage Point Surveys												
Map 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
BZ278	VP4	22/09/2020	11:39	Buzzard	1	112	0	80	32	0	cutover bog; circling	DW
BZ279	VP4	22/09/2020	11:53	Buzzard	1	484	0	120	364	0	cutover bog; circling	DW
BZ280	VP4	22/09/2020	11:58	Buzzard	1	152	0	52	100	0	cutover bog and improved agricultural grassland; circling	DW
BZ281	VP4	22/09/2020	12:07	Buzzard	1	76	50	26	0	0	cutover bog; flying low over bog	DW
BZ282	VP3	23/09/2020	10:17	Buzzard	2	49	19	30	0	0	improved agricultural grassland; circling	DW
BZ283	VP3	23/09/2020	11:15	Buzzard	2	117	0	0	117	0	improved agricultural grassland; circling	DW
BZ284	VP3	23/09/2020	11:18	Buzzard	1	61	0	0	61	0	cutover bog; circling and travelling	DW
BZ285	VP3	23/09/2020	11:53	Buzzard	1	31	0	0	31	0	conifer plantation; calling	DW
BZ286	VP3	23/09/2020	12:00	Buzzard	1	203	0	0	203	0	conifer plantation and improved agricultural grassland; circling and travelling	DW
BZ287	VP4	23/09/2020	12:13	Buzzard	1	328	0	28	300	0	improved agricultural grassland; circling and travelling	DW
BZ288	VP3	23/09/2020	12:21	Buzzard	1	148	0	0	148	0	improved agricultural grassland; circling	DW
BZ289	VP7	29/09/2020	11:46	Buzzard	2	81	21	40	0	0	cutover bog; circling	DW
BZ290	VP6	29/09/2020	12:12	Buzzard	4	546	0	0	400	146	improved agricultural grassland and cutover bog; circling together and calling	DW
BZ291	VP6	29/09/2020	12:17	Buzzard	1	162	0	0	162	0	cutover bog; soaring	DW
BZ292	VP6	29/09/2020	12:29	Buzzard	4	331	0	0	331	0	improved agricultural grassland; circling together	DW
BZ293	VP1	30/09/2020	12:18	Buzzard	1	144	0	0	144	0	improved agricultural grassland; travelling and circling	DW
BZ295	VP5	08/10/2020	13:41	Buzzard	1	21	0	21	0	0	cutover bog; travelling	DW
BZ296	VP5	08/10/2020	15:27	Buzzard	1	26	0	26	0	0	cutover bog; circling	DW

Vantage Point Surveys												
Map 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
BZ297	VP5	08/10/2020	15:47	Buzzard	1	66	0	0	66	0	cutover bog; circling	DW
BZ298	VP5	08/10/2020	15:49	Buzzard	2	41	5	16	20	0	cutover bog; circling together, dropping towards conifers	DW
BZ299	VP4	09/10/2020	13:58	Buzzard	1	71	0	0	71	0	cutover bog; circling	DW
BZ300	VP4	09/10/2020	14:52	Buzzard	1	116	6	30	80	0	cutover bog; circling, mobbed by corvids	DW
BZ301	VP4	09/10/2020	15:34	Buzzard	1	91	0	0	91	0	cutover bog; circling	DW
BZ302	VP4	09/10/2020	15:49	Buzzard	2	118	0	50	68	0	cutover bog; circling together	DW
BZ303	VP4	09/10/2020	15:58	Buzzard	2	41	0	21	20	0	cutover bog and improved agricultural grassland; travelling together	DW
BZ304	VP4	09/10/2020	16:11	Buzzard	2	212	0	0	212	0	cutover bog; circling together at height, being mobbed by 2 HC	DW
BZ305	VP4	09/10/2020	17:34	Buzzard	1	22	0	22	0	0	cutover bog; travelling	DW
BZ306	VP1	13/10/2020	13:49	Buzzard	1	171	0	0	171	0	improved agricultural grassland; circling	DW
BZ307	VP1	13/10/2020	14:05	Buzzard	1	209	0	0	209	0	cutover bog and improved agricultural grassland; circling	DW
BZ308	VP1	13/10/2020	14:18	Buzzard	1	86	0	0	86	0	cutover bog; circling and travelling	DW
BZ323	VP11	13/10/2020	14:48	Buzzard	4	150	25	25	100	0	cutover bog and mixed broadleaved/conifer woodland; soaring, emerged from woods soaring together and descended back down	KB
BZ309	VP1	13/10/2020	14:49	Buzzard	1	82	40	42	0	0	cutover bog; gliding and calling	DW
BZ324	VP11	13/10/2020	15:39	Buzzard	3	80	4	6	70	0	cutover bog and mixed broadleaved/conifer woodland; soaring, emerged from woods soaring together and descended back down	KB
BZ310	VP1	13/10/2020	15:58	Buzzard	1	73	0	50	23	0	improved agricultural grassland; circling	DW

Vantage Point Surveys												
Map 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
BZ325	VP11	13/10/2020	16:00	Buzzard	1	60	5	25	30	0	mixed broadleaved/conifer woodland; soaring, soaring over treetops	KB
BZ311	VP1	13/10/2020	17:20	Buzzard	3	377	50	150	177	0	cutover bog, improved agricultural grassland and conifer plantation; travelling low together then circling together gaining height	DW
B326	VP12	14/10/2020	13:19	Buzzard	1	30	0	2	3	25	mixed broadleaved/conifer woodland and cutover bog; soaring, soaring over woods and descended down	KB
BZ327	VP12	14/10/2020	13:42	Buzzard	1	180	0	5	175	0	cutover bog and conifer plantation; soaring, soaring over woods and bog and descended down into trees	KB
BZ328	VP12	14/10/2020	14:02	Buzzard	1	60	0	3	57	0	immature woodland; soaring, soaring over woods and descended down	KB
BZ329	VP12	14/10/2020	14:35	Buzzard	1	20	0	0	0	20	immature woodland, improved agricultural grassland and cutover bog; soaring, soaring high, flew west out of vision	KB
BZ330	VP12	14/10/2020	14:58	Buzzard	1	180	0	0	20	160	immature woodland, conifer plantation and cutover bog; soaring, soaring high, flew west out of vision	KB
BZ331	VP12	14/10/2020	15:35	Buzzard	1	240	0	0	200	40	cutover bog, immature woodland and conifer plantation; soaring, mobbed by HC	KB
BZ312	VP2	16/10/2020	13:38	Buzzard	2	609	0	59	550	0	short rotation coppice and cutover bog; travelling together and soaring	DW
BZ313	VP2	16/10/2020	13:44	Buzzard	2	182	0	82	100	0	improved agricultural grassland; circling together	DW
BZ314	VP2	16/10/2020	14:15	Buzzard	3	502	0	52	450	0	improved agricultural grassland and hedgerows; travelling and circling together	DW

Vantage Point Surveys												
Map 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
BZ315	VP2	16/10/2020	14:31	Buzzard	3	59	0	0	59	0	conifer plantation and improved agricultural grassland; circling together	DW
BZ316	VP2	16/10/2020	14:49	Buzzard	1	118	8	40	70	0	cutover bog, conifer plantation and improved agricultural grassland; circling, swooping to ground	DW
BZ317	VP2	16/10/2020	14:54	Buzzard	1	131	11	100	20	0	cutover bog; circling and travelling, perches in conifer	DW
BZ318	VP2	16/10/2020	15:35	Buzzard	3	144	0	0	144	0	cutover bog and improved agricultural grassland; circling together	DW
BZ332	VP13	16/10/2020	16:43	Buzzard	1	180	20	140	20	0	cutover bog, scrub and immature woodland; soaring and hovering. mobbed by HC	KB
BZ319	VP2	16/10/2020	17:37	Buzzard	2	403	23	150	230	0	improved agricultural grassland; circling	DW
BZ333	VP9	20/10/2020	14:44	Buzzard	1	10	4	6	0	0	scrub, immature woodland and cutover bog; circling, emerged from woods, calling. circled area and descended as flying eastwards	KB
BZ334	VP9	20/10/2020	14:52	Buzzard	2	180		60	120	0	mixed broadleaved woodland and immature woodland; circling, emerged from woods, circling area. 2nd bird dropped back down after 30s. 1st bird continued circling before descending back down into woods	KB
BZ335	VP9	20/10/2020	18:48	Buzzard	1	8	8	0	0	0	cutover bog, mixed broadleaved woodland and immature woodland; travelling, flew straight across VP from woods, travelling south	KB
BZ336	VP7	21/10/2020	13:59	Buzzard	2	8	0	0	8	0	cutover bog and immature woodland; circling, emerged above tree tops circled and descended from view	KB

Vantage Point Surveys												
Map 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
BZ337	VP7	21/10/2020	14:03	Buzzard	1	5	0	2	3	0	cutover bog and immature woodland; circling, emerged above tree tops circled and descended from view	KB
BZ338	VP10	22/10/2020	13:15	Buzzard	2	25	0	0	25	0	mixed broadleaved/conifer woodland, immature woodland and cutover bog; soaring, emerged from woods	KB
BZ339	VP10	22/10/2020	15:30	Buzzard	2	180	0	0	180	0	mixed broadleaved/conifer woodland and immature woodland; soaring	KB
BZ340	VP10	22/10/2020	15:41	Buzzard	1	30	2	2	26	0	mixed broadleaved/conifer woodland and immature woodland; soaring, emerged from woods, soaring, flew east	KB
BZ341	VP10	22/10/2020	17:07	Buzzard	1	10	0	0	10	0	immature woodland and immature woodland; soaring	KB
BZ320	VP3	23/10/2020	12:59	Buzzard	1	196	0	96	100	0	conifer plantation and cutover bog; circling	DW
BZ321	VP3	23/10/2020	13:11	Buzzard	1	81	0	0	81	0	improved agricultural grassland; circling	DW
BZ322	VP3	23/10/2020	13:39	Buzzard	1	133	0	0	133	0	improved agricultural grassland; travelling and circling	DW
BZ344	VP15	28/10/2020	15:02	Buzzard	1	6	0	6	0	0	cutover bog; flying, seen briefly when following golden plover	PW
BZ342	VP14	29/10/2020	12:44	Buzzard	1	8	8	0	0	0	raised bog and bog woodland; flying, flew low across edge of bog and appeared to land in trees.	PW
BZ343	VP14	29/10/2020	17:14	Buzzard	1	31	0	15	16	0	raised bog and mixed broadleaved woodland; flying	PW
BZ352	VP4	03/11/2020	10:57	Buzzard	1	42	0	0	42	0	cutover bog, conifer plantation and improved agricultural grassland; circling	DW

Vantage Point Surveys												
Map 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
BZ353	VP4	03/11/2020	11:06	Buzzard	1	212	0	0	212	0	improved agricultural grassland; circling and travelling, being mobbed by corvids	DW
BZ354	VP4	03/11/2020	11:28	Buzzard	1	432	0	0	432	0	cutover bog and scrub; travelling and circling	DW
BZ345	VP15	03/11/2020	11:39	Buzzard	1	360	0	0	360	0	cutover bog, scrub and improved agricultural grassland; circling soaring, being mobbed., mobbed by SH briefly.	PW
BZ355	VP4	03/11/2020	11:42	Buzzard	2	107	0	0	107	0	improved agricultural grassland; circling	DW
BZ346	VP15	03/11/2020	12:03	Buzzard	1	5	0	0	5	0	cutover bog; flying	PW
BZ347	VP15	03/11/2020	12:23	Buzzard	1	811	0	457	354	0	cutover bog; flying low at first over bog before soaring, 1 of 2x buzzards.	PW
BZ348	VP15	03/11/2020	12:28	Buzzard	1	657	0	303	354	0	cutover bog; flying and soaring, 2nd of 2x BZ	PW
BZ356	VP4	03/11/2020	12:46	Buzzard	1	79	0	0	79	0	improved agricultural grassland; travelling and circling	DW
BZ349	VP15	03/11/2020	12:58	Buzzard	1	243	0	0	243	0	cutover bog; flying, soaring	PW
BZ350	VP15	03/11/2020	12:59	Buzzard	1	213	0	0	213	0	cutover bog; flying, circling	PW
BZ351	VP15	03/11/2020	13:00	Buzzard	1	144	0	0	144	0	cutover bog; flying	PW
BZ360	VP10	09/11/2020	11:55	Buzzard	1	25	25	0	0	0	mixed broadleaved/conifer woodland, cutover bog and conifer plantation; flew from bog edge into woodland	DM
BZ366	VP16	10/11/2020	07:31	Buzzard	1	5	5	0	0	0	cutover bog and scrub; flying over, spotted perching on a tree on the bog. took up a few minutes later and flew south over to trees south of VP	KB
BZ367	VP15	10/11/2020	11:14	Buzzard	1	15	0	0	15	0	cutover bog; travelling	KB
BZ361	VP8	13/11/2020	12:45	Buzzard	1	275	0	0	275	0	mixed broadleaved/conifer woodland and cutover bog; hunting	DM

Vantage Point Surveys												
Map 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
BZ362	VP12	17/11/2020	10:44	Buzzard	2	420	0	60	300	60	mixed broadleaved/conifer woodland and cutover bog; hunting, descended to woodland	DM
BZ363	VP12	17/11/2020	12:39	Buzzard	2	240	0	100	140	0	mixed broadleaved/conifer woodland and cutover bog; circling, over woodland	DM
BZ364	VP12	17/11/2020	12:57	Buzzard	2	180	0	80	100	0	mixed broadleaved/conifer woodland and cutover bog; circling, over woodland	DM
BZ365	VP12	17/11/2020	13:13	Buzzard	1	60	0	0	60	0	mixed broadleaved/conifer woodland and cutover bog; hunting	DM
BZ357	VP3	20/11/2020	11:35	Buzzard	1	22	10	12	0	0	mixed broadleaved woodland and cutover bog; travelling	DW
BZ358	VP2	23/11/2020	12:52	Buzzard	2	46	6	20	20	0	improved agricultural grassland; circling	DW
BZ359	VP2	23/11/2020	13:11	Buzzard	1	35	15	20	0	0	cutover bog; hunting	DW
BZ368	VP4	03/12/2020	11:56	Buzzard	2	212	0	0	212	0	cutover bog, conifer plantation and improved agricultural grassland; circling together	DW
BZ378	VP11	08/12/2020	11:52	Buzzard	1	65	0	0	65	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ379	VP11	08/12/2020	12:39	Buzzard	2	420	0	0	420	0	cutover bog and mixed broadleaved/conifer woodland; hunting, circling	DM
BZ369	VP3	14/12/2020	11:48	Buzzard	1	185	0	85	100	0	cutover bog, conifer plantation and improved agricultural grassland; soaring; circling	DW
BZ370	VP3	14/12/2020	12:06	Buzzard	1	27	0	27	0	0	improved agricultural grassland; circling	DW
BZ371	VP5	17/12/2020	13:13	Buzzard	1	21	11	10	0	0	cutover bog; flying low	DW

Vantage Point Surveys												
Map 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
BZ372	VP6	21/12/2020	16:15	Buzzard	1	184	14	50	120	0	cutover bog; travelling	DW
BZ373	VP2	22/12/2020	12:17	Buzzard	1	18	18	0	0	0	cutover bog and improved agricultural grassland; hunting	DW
BZ374	VP2	22/12/2020	12:37	Buzzard	1	20	20	0	0	0	cutover bog; flying to perch in conifer	DW
BZ375	VP2	22/12/2020	13:12	Buzzard	1	101	71	30	0	0	cutover bog and conifer plantation; hunting low	DW
BZ376	VP1	23/12/2020	12:07	Buzzard	1	96	46	50	0	0	cutover bog, scrub and improved agricultural grassland; hunting	DW
BZ377	VP1	23/12/2020	12:26	Buzzard	1	89	39	50	0	0	cutover bog, conifer plantation and improved agricultural grassland; hunting, being mobbed by corvid	DW
BZ380	VP12	29/12/2020	15:13	Buzzard	1	295	0	0	295	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ390	VP13	08/01/2021	13:00	Buzzard	1	120	120	0	0	0	cutover bog; travelling	DM
BZ391	VP13	08/01/2021	13:16	Buzzard	1	25	0	25	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, landed in tree	DM
BZ392	VP13	08/01/2021	13:20	Buzzard	1	20	0	20	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, moved to another tree	DM
BZ393	VP13	08/01/2021	13:29	Buzzard	1	15	0	15	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, flew into woodland	DM
BZ394	VP13	08/01/2021	14:30	Buzzard	1	80	0	0	80	0	cutover bog and mixed broadleaved/conifer woodland; circling, mobbed by pe	DM
BZ381	VP4	11/01/2021	09:20	Buzzard	1	29	9	20	0	0	improved agricultural grassland and cutover bog; travelling	DW

Vantage Point Surveys												
Map 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
BZ395	VP11	11/01/2021	09:23	Buzzard	1	65	0	10	55	0	cutover bog and mixed broadleaved/conifer woodland; circling, descended to woodland	DM
BZ396	VP10	14/01/2021	11:35	Buzzard	1	110	0	0	110	0	cutover bog and mixed broadleaved/conifer woodland; travelling, mobbed by crows	DM
BZ397	VP10	14/01/2021	11:42	Buzzard	1	45	0	25	20	0	cutover bog and mixed broadleaved/conifer woodland; travelling, flew into woodland	DM
BZ382	VP3	15/01/2021	11:40	Buzzard	1	125	25	50	50	0	cutover bog; travelling	DW
BZ398	VP12	18/01/2021	13:27	Buzzard	1	60	0	60	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, flew from ESB pole	DM
BZ383	VP6	21/01/2021	12:31	Buzzard	3	176	0	36	140	0	cutover bog; circling	DW
BZ384	VP6	21/01/2021	12:34	Buzzard	1	320	0	0	320	0	cutover bog and scrub; circling / soaring, bird from group of three, lost sight of other two	DW
BZ385	VP6	21/01/2021	13:28	Buzzard	1	238	0	38	200	0	improved agricultural grassland and cutover bog; soaring and travelling	DW
BZ386	VP2	25/01/2021	14:45	Buzzard	1	47	27	20	0	0	cutover bog; travelling, perching in tree	DW
BZ387	VP2	25/01/2021	15:15	Buzzard	1	30	20	10	0	0	cutover bog and improved agricultural grassland; travelling	DW
BZ388	VP5	27/01/2021	11:13	Buzzard	1	96	56	40	0	0	cutover bog and improved agricultural grassland; hunting and gliding	DW
BZ389	VP1	28/01/2021	10:02	Buzzard	1	35	0	20	15	0	cutover bog; traveling	DW
BZ399	VP7	04/02/2021	12:40	Buzzard	1	290	0	0	290	0	cutover bog, improved agricultural grassland and scrub; soaring	DW
BZ400	VP7	04/02/2021	14:34	Buzzard	1	95	0	15	80	0	cutover bog and mixed broadleaved woodland; soaring, 45sec outside of viewshed	DW

Vantage Point Surveys												
Map 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
BZ401	VP5	08/02/2021	16:18	Buzzard	1	230	0	80	150	0	improved agricultural grassland, mixed broadleaved woodland and cutover bog; soaring and travelling	DW
BZ402	VP1	09/02/2021	13:28	Buzzard	4	38	0	38	0	0	improved agricultural grassland and cutover bog; circling, calling together	DW
BZ403	VP1	09/02/2021	13:31	Buzzard	1	125	5	65	60	0	cutover bog, improved agricultural grassland and mixed broadleaved woodland; circling and travelling, from group of 4	DW
BZ404	VP1	09/02/2021	13:47	Buzzard	1	65	0	30	35	0	improved agricultural grassland and conifer plantation; travelling	DW
BZ405	VP1	09/02/2021	13:55	Buzzard	1	120	0	80	40	0	cutover bog, improved agricultural grassland and conifer plantation; soaring, 1 of 2 BZ in viewshed at same time, initially together	DW
BZ406	VP1	09/02/2021	13:55	Buzzard	1	110	0	90	20	0	improved agricultural grassland and conifer plantation; soaring and travelling, 2 of 2 BZ in viewshed at same time	DW
BZ407	VP1	09/02/2021	14:05	Buzzard	1	50	20	30	0	0	conifer plantation; gliding	DW
BZ408	VP1	09/02/2021	14:41	Buzzard	1	115	35	80	0	0	conifer plantation and improved agricultural grassland; travelling	DW
BZ409	VP1	09/02/2021	14:50	Buzzard	3	275	35	150	90	0	improved agricultural grassland, cutover bog and mixed broadleaved woodland; soaring, calling	DW
BZ410	VP1	09/02/2021	15:48	Buzzard	1	108	18	70	20	0	improved agricultural grassland and conifer plantation; soaring and travelling	DW
BZ437	VP12	10/02/2021	13:03	Buzzard	1	6	6	0	0		cutover bog and immature woodland; travelling. landed in tree	KB
BZ438	VP12	10/02/2021	14:17	Buzzard	1	40	0	0	40		cutover bog and immature woodland; soaring. mobbed by HC	KB

Vantage Point Surveys												
Map 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
BZ411	VP2	10/02/2021	12:03	Buzzard	1	238	58	150	30	0	cutover bog and mixed broadleaved woodland; travelling	DW
BZ412	VP2	10/02/2021	12:24	Buzzard	1	54	0	34	20	0	cutover bog and mixed broadleaved woodland; travelling	DW
BZ413	VP2	10/02/2021	14:18	Buzzard	1	320	0	0	320	0	cutover bog; soaring, being mobbed by HC in beginning	DW
BZ414	VP2	10/02/2021	15:45	Buzzard	2	125	25	80	20	0	improved agricultural grassland and mixed broadleaved woodland; soaring and travelling	DW
BZ415	VP4	15/02/2021	13:31	Buzzard	1	362	0	62	300	0	cutover bog and scrub; circling and travelling	DW
BZ416	VP4	15/02/2021	13:45	Buzzard	1	102	0	0	102	0	cutover bog, scrub and improved agricultural grassland; travelling	DW
BZ417	VP4	15/02/2021	13:54	Buzzard	1	371	0	41	330	0	cutover bog and scrub; soaring	DW
BZ418	VP4	15/02/2021	14:35	Buzzard	1	193	0	0	193	0	cutover bog and scrub; soaring	DW
BZ419	VP4	15/02/2021	16:06	Buzzard	1	62	12	30	20	0	cutover bog and improved agricultural grassland; soaring, being mobbed by corvids	DW
BZ439	VP13	16/02/2021	13:38	Buzzard	1	30	30	0	0		cutover bog and immature woodland; travelling. landed in tree	KB
BZ440	VP13	16/02/2021	13:39	Buzzard	1	40	10	30	0		cutover bog and immature woodland; soaring, took up from perch and was joined by a second BZ	KB
BZ441	VP13	16/02/2021	13:39	Buzzard	1	160	60	100	0		cutover bog; soaring and flying low over bog	KB
BZ442	VP13	16/02/2021	14:22	Buzzard	1	30	2	3	25		cutover bog; soaring	KB
BZ443	VP13	16/02/2021	15:46	Buzzard	1	50	5	10	35		cutover bog; travelling low over bog and soaring	KB
BZ420	VP3	17/02/2021	12:52	Buzzard	1	53	0	13	40	0	improved agricultural grassland; soaring	DW

Vantage Point Surveys												
Map 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
BZ421	VP3	17/02/2021	13:08	Buzzard	2	425	0	0	425	0	improved agricultural grassland; soaring together	DW
BZ422	VP3	17/02/2021	13:11	Buzzard	1	370	150	150	70	0	cutover bog, mixed broadleaved woodland and scrub; gliding and hunting, perched on dead tree	DW
BZ423	VP3	17/02/2021	14:09	Buzzard	1	255	0	155	100	0	cutover bog and scrub; soaring	DW
BZ430	VP9	18/02/2021	12:12	Buzzard	1	60	0	60	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, as I drove to VP	DM
BZ431	VP9	18/02/2021	14:25	Buzzard	1	360	0	100	260	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ432	VP9	18/02/2021	18:00	Buzzard	1	75	0	0	75	0	cutover bog and mixed broadleaved/conifer woodland; travelling, mobbed by HC's	DM
BZ433	VP11	22/02/2021	12:41	Buzzard	1	120	0	0	120	0	cutover bog and mixed broadleaved/conifer woodland; circling, mobbed by HC's	DM
BZ434	VP11	22/02/2021	13:43	Buzzard	2	120	0	0	60	60	cutover bog and mixed broadleaved/conifer woodland; circling	DM
BZ435	VP11	22/02/2021	17:56	Buzzard	1	150	0	0	150	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ425	VP6	22/02/2021	13:16	Buzzard	1	285	0	25	260	0	conifer plantation, scrub and improved agricultural grassland; soaring	DW
BZ424	VP6	22/02/2021	13:17	Buzzard	1	95	35	60	0	0	cutover bog and scrub; gliding	DW
BZ426	VP6	22/02/2021	14:57	Buzzard	1	26	0	26	0	0	improved agricultural grassland; gliding	DW

Vantage Point Surveys												
Map 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
BZ427	VP6	22/02/2021	15:09	Buzzard	1	94	24	70	0	0	cutover bog, conifer plantation and immature woodland; gliding, dove to ground	DW
BZ428	VP8	24/02/2021	13:01	Buzzard	2	257	0	0	257	0	improved agricultural grassland, cutover bog and scrub; soaring	DW
BZ429	VP8	24/02/2021	14:09	Buzzard	1	305	0	105	200	0	improved agricultural grassland; soaring	DW
BZ436	VP10	25/02/2021	13:26	Buzzard	1	660	0	0	240	420	cutover bog and mixed broadleaved/conifer woodland; hunting, circling	DM
BZ444	VP16	26/02/2021	13:49	Buzzard	1	120	5	115	0		cutover bog and mixed conifer woodland; travelling, foraging	KB
BZ445	VP16	26/02/2021	14:46	Buzzard	1	180	5	75	60	40	cutover bog and mixed conifer woodland; soaring, travelling, foraging	KB
BZ453	VP2	01/03/2021	10:56	Buzzard	1	24	14	10	0	0	mixed broadleaved woodland and improved agricultural grassland; circling	DW
BZ454	VP1	04/03/2021	12:01	Buzzard	1	245	0	15	230	0	cutover bog, improved agricultural grassland and mixed broadleaved woodland; soaring	DW
BZ455	VP1	04/03/2021	12:03	Buzzard	1	65	0	35	30	0	improved agricultural grassland and mixed broadleaved woodland; soaring	DW
BZ457	VP1	04/03/2021	12:08	Buzzard	2	650	0	0	650	0	cutover bog, improved agricultural grassland and conifer plantation; soaring together	DW
BZ456	VP1	04/03/2021	12:09	Buzzard	2	480	0	0	480	0	improved agricultural grassland and conifer plantation; soaring together, total of 4 BZ in viewshed at same time	DW
BZ458	VP4	11/03/2021	07:06	Buzzard	1	188	38	100	50	0	cutover bog and scrub; travelling and gliding in wind, being pursued by 2 RN	DW

Vantage Point Surveys												
Map 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
BZ459	VP4	11/03/2021	10:54	Buzzard	1	116	0	36	80	0	cutover bog; soaring, being mobbed by HC	DW
BZ460	VP8	18/03/2021	10:49	Buzzard	1	630	0	30	600	0	improved agricultural grassland, cutover bog and conifer plantation; soaring	DW
BZ461	VP8	18/03/2021	10:50	Buzzard	1	375	0	0	375	0	improved agricultural grassland and cutover bog; soaring	DW
BZ462	VP8	18/03/2021	11:09	Buzzard	2	1550	0	150	1400	0	cutover bog, improved agricultural grassland and conifer plantation; soaring together	DW
BZ463	VP8	18/03/2021	11:43	Buzzard	1	310	0	0	310	0	cutover bog, improved agricultural grassland and scrub; soaring	DW
BZ446	VP15	19/03/2021	06:45	Buzzard	1	6	6	0	0	0	immature woodland; soaring, landed in tree	KB
BZ479	VP12	20/03/2021	10:48	Buzzard	1	40	0	40	0	0	hedgerows; flying over evergreen treeline	NM
BZ472	VP13	23/03/2021	08:33	Buzzard	1	25	25	0	0	0	scrub, cutover bog and immature woodland; flying low and hunting over heather scrub and bog grass, hovering low occasionally	NM
BZ473	VP13	23/03/2021	08:38	Buzzard	1	140	0	40	100	0	mixed conifer woodland and immature woodland; circling and soaring over woodland	NM
BZ464	VP3	23/03/2021	10:13	Buzzard	1	96	0	0	96	0	cutover bog and conifer plantation; gliding in wind	DW
BZ474	VP13	23/03/2021	11:10	Buzzard	2	325	0	0	0	325	cutover bog; pair soaring high and circling above cutover bog	NM
BZ465	VP3	23/03/2021	11:43	Buzzard	1	76	6	30	40	0	cutover bog, scrub and improved agricultural grassland; travelling and soaring	DW

Vantage Point Surveys												
Map 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
BZ447	VP16	24/03/2021	09:59	Buzzard	2	240	0	40	200	0	cutover bog, mixed conifer woodland and improved agricultural grassland; soaring	KB
BZ448	VP16	24/03/2021	10:23	Buzzard	1	18	8	10	0	0	cutover bog and mixed conifer woodland; travelling/foraging	KB
BZ449	VP16	24/03/2021	10:46	Buzzard	1	12	0	12	0	0	cutover bog; travelling/foraging	KB
BZ450	VP16	24/03/2021	10:51	Buzzard	1	60	5	55	0	0	cutover bog and mixed conifer woodland; soaring/travelling	KB
BZ451	VP16	24/03/2021	10:51	Buzzard	1	10	10	0	0	0	cutover bog; travelling	KB
BZ452	VP16	24/03/2021	10:55	Buzzard	1	30	10	20	0	0	mixed conifer woodland and cutover bog; soaring	KB
BZ466	VP6	24/03/2021	10:04	Buzzard	1	185	0	0	185	0	improved agricultural grassland and cutover bog; soaring	DW
BZ467	VP6	24/03/2021	10:07	Buzzard	1	115	0	0	115	0	improved agricultural grassland; soaring	DW
BZ468	VP6	24/03/2021	10:21	Buzzard	1	38	8	30	0	0	cutover bog and scrub; circling	DW
BZ469	VP6	24/03/2021	10:50	Buzzard	1	225	15	60	150	0	conifer plantation, cutover bog and improved agricultural grassland; soaring	DW
BZ470	VP6	24/03/2021	11:10	Buzzard	1	280	30	120	130	0	cutover bog and scrub; travelling and gliding	DW
BZ471	VP3	24/03/2021	11:16	Buzzard	1	183	0	0	183	0	cutover bog and improved agricultural grassland; gliding in wind	DW
BZ478	VP11	25/03/2021	09:11	Buzzard	2	150	0	30	120	0	cutover bog and immature woodland; soaring high above woodland and bog	NM
BZ475	VP9	29/03/2021	09:18	Buzzard	1	75	30	45	0	0	mixed broadleaved/conifer woodland and immature woodland; flying over top of woodland	NM
BZ476	VP9	29/03/2021	12:00	Buzzard	1	65	0	0	65	0	cutover bog, immature woodland and raised bog; soaring high above bog, harried by HC	NM

Vantage Point Surveys												
Map 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
BZ477	VP9	29/03/2021	12:54	Buzzard	1	245	15	45	185	0	wet willow-alder-ash woodland, immature woodland and cutover bog; perched briefly in wet woodland before flying off and steadily ascending over cutover bog, flying n	
BZ493	VP10	06/04/2021	16:12	Buzzard	1	120	0	20	100	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ494	VP10	06/04/2021	16:23	Buzzard	1	60	0	30	30	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ495	VP10	06/04/2021	16:52	Buzzard	1	65	0	0	65	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ496	VP5	07/04/2021	15:18	Buzzard	1	60	0	60	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, landed on tree	DM
BZ497	VP5	07/04/2021	15:47	Buzzard	1	95	0	25	70	0	cutover bog and mixed broadleaved/conifer woodland; hunting, descended into woodland	DM
BZ498	VP5	07/04/2021	16:57	Buzzard	1	30	30	0	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, descended below tree line	DM
BZ499	VP1	08/04/2021	14:43	Buzzard	1	60	0	0	60	0	cutover bog and mixed broadleaved/conifer woodland; circling	DM
BZ500	VP1	08/04/2021	16:25	Buzzard	1	130	0	20	110	0	cutover bog and mixed broadleaved/conifer woodland; hunting, dropped into woodland	DM
BZ501	VP1	08/04/2021	17:23	Buzzard	1	200	0	0	200	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM

Vantage Point Surveys												
Map 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
BZ502	VP12	16/04/2021	16:07	Buzzard	1	45	5	10	30	0	cutover bog; soaring	KB
BZ503	VP12	16/04/2021	16:46	Buzzard	1	30	5	5	20	0	cutover bog; soaring, mobbed by 2rn	KB
BZ504	VP12	16/04/2021	17:12	Buzzard	1	40	4	36	0	0	immature woodland; soaring, mobbed by 2rn	KB
BZ505	VP12	16/04/2021	17:50	Buzzard	1	20	15	5	0	0	immature woodland and cutover bog; travelling, landed on ESB post	KB
BZ506	VP12	16/04/2021	18:34	Buzzard	1	30	30	0	0	0	cutover bog; travelling	KB
BZ507	VP4	19/04/2021	16:02	Buzzard	1	420	0	0	0	420	cutover bog and mixed broadleaved/conifer woodland; hunting	
BZ508	VP7	20/04/2021	14:50	Buzzard	1	65	0	65	0	0	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland; hunting, mobbed by HC	DM
BZ511	VP6	21/04/2021	15:13	Buzzard	3	500	0	0	300	200	cutover bog and mixed broadleaved/conifer woodland; circling	DM
BZ512	VP6	21/04/2021	15:25	Buzzard	1	300	0	0	200	100	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland; hunting	DM
BZ513	VP6	21/04/2021	15:48	Buzzard	2	120	0	0	120	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ514	VP6	21/04/2021	16:15	Buzzard	2	180	0	80	100	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ509	VP15	21/04/2021	16:29	Buzzard	1	50	5	10	35	0	cutover bog; soaring and foraging	KB
BZ510	VP15	21/04/2021	16:32	Buzzard	1	55	0	5	50	0	cutover bog; soaring	KB

Vantage Point Surveys												
Map 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
BZ515	VP6	21/04/2021	16:43	Buzzard	1	120	0	0	120	0	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
BZ516	VP6	21/04/2021	17:32	Buzzard	1	250	0	0	150	100	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ517	VP6	21/04/2021	17:54	Buzzard	1	85	0	0	85	0	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland; hunting, mobbed by HC	DM
BZ518	VP6	21/04/2021	19:35	Buzzard	1	120	0	0	120	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ521	VP3	22/04/2021	15:15	Buzzard	1	35	10	25	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, descended below treeline	DM
BZ522	VP3	22/04/2021	15:28	Buzzard	1	100	0	0	100	0	cutover bog and mixed broadleaved/conifer woodland; circling	DM
BZ523	VP3	22/04/2021	16:07	Buzzard	1	300	0	0	300	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ524	VP3	22/04/2021	17:19	Buzzard	2	420	0	0	420	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ519	VP11	22/04/2021	17:34	Buzzard	1	360	5	235	120	0	cutover bog, conifer plantation and immature woodland; soaring and foraging	KB
BZ520	VP11	22/04/2021	17:34	Buzzard	1	300	10	290	0	0	cutover bog, conifer plantation and immature woodland; soaring and foraging	KB

Vantage Point Surveys												
Map 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
BZ525	VP2	23/04/2021	15:46	Buzzard	1	95	5	5	85	0	cutover bog and mixed broadleaved/conifer woodland; hunting, dropped rapidly into woodland	DM
BZ526	VP2	23/04/2021	16:23	Buzzard	1	65	0	65	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, dropped below treeline	DM
BZ527	VP2	23/04/2021	18:00	Buzzard	1	90	0	90	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
BZ528	VP2	23/04/2021	18:32	Buzzard	1	35	0	35	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, dropped below treeline	DM
BZ529	VP12	05/05/2021	09:20	Buzzard	1	30	0	0	30	0	cutover bog and mixed conifer woodland; soaring	KB
BZ530	VP12	05/05/2021	10:00	Buzzard	1	60	0	0	60	0	cutover bog and mixed conifer woodland; soaring	KB
BZ531	VP12	05/05/2021	10:13	Buzzard	1	6	6	0	0	0	mixed conifer woodland and cutover bog; travelling - landed to perch in tree	KB
BZ532	VP12	05/05/2021	10:13	Buzzard	1	4	4	0	0	0	mixed conifer woodland and cutover bog; travelling - landed to perch in tree	KB
BZ533	VP11	07/05/2021	09:49	Buzzard	1	300	0	0	300	0	cutover bog and immature woodland; soaring	KB
BZ534	VP11	07/05/2021	09:51	Buzzard	1	180	0	0	180	0	cutover bog and immature woodland; soaring	KB
BZ535	VP8	17/05/2021	10:41	Buzzard	1	150	0	100	50	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM

Vantage Point Surveys												
Map 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
BZ536	VP10	19/05/2021	09:08	Buzzard	1	55	10	45	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, landed in tree	DM
BZ537	VP10	19/05/2021	09:14	Buzzard	1	20	20	0	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, flew behind woodland	DM
BZ538	VP10	19/05/2021	10:17	Buzzard	1	420	0	60	300	60	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland; hunting	DM
BZ539	VP7	22/05/2021	10:50	Buzzard	1	180	0	0	180	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ540	VP9	24/05/2021	09:11	Buzzard	2	300	0	60	180	60	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ541	VP9	24/05/2021	11:00	Buzzard	1	45	0	0	45	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
BZ542	VP13	11/06/2021	13:39	Buzzard	1	50	0	50	0	0	conifer plantation and cutover bog; soaring	KB
BZ543	VP13	11/06/2021	15:37	Buzzard	1	120	0	120	0	0	cutover bog and scrub/transitional woodland; soaring and foraging	KB
BZ544	VP1	16/06/2021	13:25	Buzzard	1	40	0	0	10	30	mixed conifer woodland; circling/flying, circling over Scots pine stand	SI
BZ551	VP14	16/06/2021	13:32	Buzzard	1	160	5	15	140	0	cutover bog and immature woodland; soaring	KB
BZ552	VP14	16/06/2021	13:34	Buzzard	1	120	5	5	110	0	immature woodland, conifer plantation and cutover bog; soaring and hovering	KB

Vantage Point Surveys												
Map 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
BZ545	VP1	16/06/2021	14:06	Buzzard	1	60	0	0	60	0	improved agricultural grassland, mixed broadleaved woodland and lowland blanket bog; circling and calling	SI
BZ546	VP1	16/06/2021	14:08	Buzzard	1	40	0	0	40	0	improved agricultural grassland, mixed broadleaved woodland and lowland blanket bog; circling and calling, interacting with BZ002	SI
BZ547	VP1	16/06/2021	14:35	Buzzard	1	32	0	32	0	0	lowland blanket bog and mixed broadleaved woodland; flying, flew along wd1 then circling over pb3	SI
BZ548	VP1	16/06/2021	15:06	Buzzard	1	50	0	10	40	0	improved agricultural grassland, lowland blanket bog and mixed broadleaved woodland; circling/flying, circling near k001, then flew across the site	SI
BZ553	VP14	16/06/2021	15:34	Buzzard	1	15	15	0	0	0	cutover bog and immature woodland; foraging and hovering - landed in tree	KB
BZ549	VP1	16/06/2021	16:44	Buzzard	1	70	0	70	0	0	improved agricultural grassland, lowland blanket bog and mixed broadleaved woodland; circling and calling, circling, calling and sky-dancing	SI
BZ554	VP14	16/06/2021	16:53	Buzzard	1	30	0	0	30	0	cutover bog; soaring	KB
BZ550	VP1	16/06/2021	17:11	Buzzard	1	40	0	0	40	0	lowland blanket bog; flying, passing through	SI
BZ581	VP2	17/06/2021	10:32	Buzzard	2	75	0	0	75	0	mixed broadleaved woodland and lowland blanket bog; circling, pair circling and interacting with each other	SI
BZ587	VP16	17/06/2021	12:53	Buzzard	1	480	20	460	0	0	conifer plantation and immature woodland; soaring	KB

Vantage Point Surveys												
Map 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
BZ588	VP16	17/06/2021	13:14	Buzzard	1	180	5	55	60	60	conifer plantation; soaring	KB
BZ589	VP16	17/06/2021	13:21	Buzzard	1	40	0	10	30	0	cutover bog; soaring	KB
BZ590	VP16	17/06/2021	13:35	Buzzard	1	540	0	20	60	460	cutover bog; soaring	KB
BZ582	VP2	17/06/2021	13:43	Buzzard	1	62	0	30	32	0	lowland blanket bog and mixed broadleaved woodland; flying, passing through	SI
BZ591	VP16	17/06/2021	13:53	Buzzard	1	240	4	36	200	0	conifer plantation; soaring	KB
BZ583	VP2	17/06/2021	14:05	Buzzard	1	70	0	0	70	0	lowland blanket bog and mixed broadleaved woodland; flying, circling and passing through (likely same bird as BZ003)	SI
BZ584	VP3	17/06/2021	16:00	Buzzard	1	60	0	0	60	0	mixed broadleaved woodland; flying/circling, circling over mixed woodland	SI
BZ585	VP3	17/06/2021	16:09	Buzzard	1	30	0	0	30	0	mixed broadleaved woodland; flying/circling, likely the same bird as BZ001	SI
BZ586	VP3	17/06/2021	17:25	Buzzard	1	15	0	0	15	0	improved agricultural grassland; flying/circling, circling	SI
BZ555	VP12	17/06/2021	13:49	Buzzard	1	214	0	0	214	0	cutover bog, conifer plantation and bog woodland; circling soaring before diving down out of view among trees.	PW
BZ561	VP12	17/06/2021	14:05	Buzzard	1	424	0	0	424	0	cutover bog, recolonising bare ground and conifer plantation; soaring calling and circling., came in over VP calling. soon joined by a second bird over VP12 and a pe. moved off east towards wd4 diving down into trees out of view.	PW
BZ562	VP12	17/06/2021	14:09	Buzzard	1	202	0	0	202	0	cutover bog, recolonising bare ground and conifer plantation; flying circling	PW

Vantage Point Surveys												
Map 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
											and mobbing pe., joined other BZ over VP12. then mobbed the pe before dropping down in dive into wd4 out of view.	
BZ558	VP12	17/06/2021	15:11	Buzzard	1	110	20	29	61	0	cutover bog, conifer plantation and recolonising bare ground; flying and circling low being mobbed by HC., flew across cutover being mobbed by BZ. HC. flew to wooded area at edge of bog.	PW
BZ557	VP12	17/06/2021	15:12	Buzzard	2	28	0	2	26	0	recolonising bare ground, conifer plantation and cutover bog; circling before diving down together.	PW
BZ556	VP12	17/06/2021	15:15	Buzzard	1	230	20	23	187	0	cutover bog and conifer plantation; hunting by circling low and hovering., dropped down behind treeline out of view.	PW
BZ559	VP12	17/06/2021	15:41	Buzzard	1	238	0	98	140	0	cutover bog, recolonising bare ground and mixed broadleaved woodland; flying and circling low hunting., soon joined by a second BZ. was mobbed by 2x HC.	PW
BZ560	VP12	17/06/2021	15:41	Buzzard	1	105	0	23	82	0	cutover bog, recolonising bare ground and treelines; hunting circling and flying low., joined another BZ. was mobbed by 2x HC.	PW
BZ573	VP12	17/06/2021	16:26	Buzzard	1	522	0	0	522	0	conifer plantation, recolonising bare ground and cutover bog; hunting by hovering and flying., to NW of cutover bog. then joined by a second BZ.	PW

Vantage Point Surveys												
Map 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
BZ574	VP12	17/06/2021	16:32	Buzzard	1	150	0	0	150	0	conifer plantation, recolonising bare ground and cutover bog; hunting by hovering and flying., joined the other BZ in this area.	PW
BZ563	VP12	17/06/2021	17:20	Buzzard	1	257	0	23	234	0	cutover bog, recolonising bare ground and mixed broadleaved woodland; hunting by circling and flying., briefly mobbed by k.	PW
BZ564	VP12	17/06/2021	17:39	Buzzard	1	231	0	10	221	0	cutover bog, recolonising bare ground and scrub; hunting by hovering and flying.	PW
BZ565	VP12	17/06/2021	17:46	Buzzard	1	30	0	30	0	0	recolonising bare ground, cutover bog and scrub; hunting flying.	PW
BZ566	VP12	17/06/2021	17:57	Buzzard	1	106	0	106	0	0	cutover bog and conifer plantation; flying into land.	PW
BZ567	VP12	17/06/2021	18:06	Buzzard	1	308	0	0	0	308	improved agricultural grassland, hedgerows and conifer plantation; circling soaring before dropping down below treeline.	PW
BZ568	VP12	17/06/2021	18:12	Buzzard	1	260	0	25	235	0	cutover bog and treelines; hunting flying.	PW
BZ569	VP12	17/06/2021	18:15	Buzzard	1	97	0	0	97	0	cutover bog, treelines and scrub; hunting by hovering.	PW
BZ570	VP12	17/06/2021	18:22	Buzzard	1	20	0	0	20	0	treelines, improved agricultural grassland and cutover bog; flying	PW
BZ571	VP12	17/06/2021	18:23	Buzzard	1	197	0	5	192	0	cutover bog, treelines and scrub; flying hunting.	PW
BZ571	VP12	17/06/2021	18:33	Buzzard	1	102	0	40	62	0	mixed broadleaved woodland, cutover bog and improved agricultural grassland; flying	PW

Vantage Point Surveys												
Map 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
BZ579	VP12	17/06/2021	18:42	Buzzard	1	153	0	0	153	0	conifer plantation, raised bog and improved agricultural grassland; flying hunting., associating with another BZ.	PW
BZ575	VP12	17/06/2021	19:18	Buzzard	1	229	0	15	214	0	conifer plantation, active quarries and mines and recolonising bare ground; hunting by flying, hovering and circling., joined by a second BZ.	PW
BZ576	VP12	17/06/2021	19:20	Buzzard	1	79	0	0	79	0	conifer plantation, recolonising bare ground and cutover bog; hunting by hovering and flying., joined another BZ in this area. dropped below treeline out of view.	PW
BZ577	VP12	17/06/2021	19:25	Buzzard	1	33	0	0	33	0	conifer plantation, cutover bog and raised bog; flying being mobbed by 2x HC.	PW
BZ578	VP12	17/06/2021	19:41	Buzzard	1	330	0	0	330	0	conifer plantation, improved agricultural grassland and raised bog; flying hunting., associating with another BZ in the area.	PW
BZ580	VP12	17/06/2021	19:57	Buzzard	1	35	0	0	35	0	conifer plantation, raised bog and improved agricultural grassland; circling flying.	PW
BZ592	VP16	22/06/2021	12:18	Buzzard	1	30	5	25	0	0	cutover bog and immature woodland; soaring	KB
BZ593	VP16	22/06/2021	13:35	Buzzard	2	240	0	0	60	180	cutover bog; soaring	KB
BZ594	VP16	22/06/2021	13:48	Buzzard	1	120	5	5	110	0	cutover bog; soaring	KB
BZ595	VP16	22/06/2021	14:03	Buzzard	1	180	10	20	150	0	cutover bog; soaring	KB
BZ596	VP15	22/06/2021	16:17	Buzzard	1	30	0	0	30	0	conifer plantation; soaring	KB
BZ597	VP3	23/06/2021	12:49	Buzzard	1	240	0	10	230	0	improved agricultural grassland and mixed broadleaved woodland; circling and soaring, circling and soaring, then	SI

Vantage Point Surveys												
Map 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
											dropped out of sight into wd1, not mapped	
BZ598	VP3	23/06/2021	13:44	Buzzard	1	18	0	0	18	0	cutover bog and mixed broadleaved woodland; flying and calling, flew east to west calling and landed on ash - mobbed by HC, not mapped	SI
BZ599	VP3	23/06/2021	14:19	Buzzard	1	130	0	0	130	0	cutover bog and mixed broadleaved woodland; flying, same bird as above (BZ004) took off and flew east, not mapped	SI
BZ600	VP3	23/06/2021	14:32	Buzzard	1	60	0	0	60	0	cutover bog and mixed broadleaved woodland; flying, possibly same bird as BZ005 - landed back in same ash tree, not mapped	SI
BZ601	VP3	23/06/2021	14:38	Buzzard	1	125	0	0	125	0	cutover bog and mixed broadleaved woodland; flying, likely the same bird as BZ005, not mapped	SI
BZ602	VP3	23/06/2021	14:49	Buzzard	1	65	0	0	65	0	cutover bog and mixed broadleaved woodland; flying, likely the same bird as BZ006, not mapped	SI
BZ603	VP5	23/06/2021	16:19	Buzzard	1	110	0	0	110	0	scrub and cutover bog; circling and passing through, onsite, not mapped	SI
BZ604	VP3	09/07/2021	14:00	Buzzard	1	120	0	10	110	0	bog woodland and cutover bog; soaring, landed in forestry.	CR
BZ605	VP11	12/07/2021	19:20	Buzzard	1	60	0	60	0	0	bogs; soaring/hunting	AR
BZ606	VP11	12/07/2021	19:41	Buzzard	1	120	0	0	120	0	bogs; soaring	AR
BZ607	VP4	12/07/2021	15:50	Buzzard	1	129	0	0	129	0	mixed broadleaved/conifer woodland and cutover bog; soaring above tree canopy and was being mobbed by crows	CR
BZ608	VP4	12/07/2021	16:09	Buzzard	2	108	0	0	108	0	cutover bog and mixed broadleaved/conifer woodland;	CR

Vantage Point Surveys												
Map 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
											soaring., two buzzards observed flying in close formation, likely to be a pair.	
BZ609	VP15	13/07/2021	11:01	Buzzard	1	5	5	0	0	0	highly modified/non-native woodland; travelling	AR
BZ610	VP15	13/07/2021	11:49	Buzzard	1	20	0	20	0	0	highly modified/non-native woodland; soaring	AR
BZ611	VP15	13/07/2021	12:37	Buzzard	1	60	0	0	60	0	highly modified/non-native woodland; soaring	AR
BZ612	VP15	13/07/2021	13:34	Buzzard	1	240	0	0	240	0	cutover bog; hunting	AR
BZ613	VP15	13/07/2021	13:41	Buzzard	1	120	0	120	0	0	cutover bog and highly modified/non-native woodland; hunting	AR
BZ614	VP14	14/07/2021	12:56	Buzzard	2	220	0	0	220	0	cutover bog and highly modified/non-native woodland; soaring/hunting	AR
BZ615	VP14	14/07/2021	13:17	Buzzard	2	300	0	0	0	300	bogs and highly modified/non-native woodland; soaring/hunting	AR
BZ616	VP14	14/07/2021	13:38	Buzzard	1	120	0	0	120	0	bogs and highly modified/non-native woodland; soaring	AR
BZ617	VP14	14/07/2021	14:16	Buzzard	1	30	0	30	0	0	highly modified/non-native woodland; travelling	AR
BZ618	VP14	14/07/2021	15:30	Buzzard	1	40	0	40	0	0	conifer plantation; hunting	AR
BZ619	VP14	14/07/2021	15:40	Buzzard	1	60	0	60	0	0	cutover bog; hunting	AR
BZ620	VP14	14/07/2021	16:06	Buzzard	1	40	0	0	40	0	bogs and highly modified/non-native woodland; hunting	AR
BZ621	VP14	14/07/2021	16:20	Buzzard	4	120	0	0	120	0	cutover bog and highly modified/non-native woodland; soaring	AR
BZ622	VP14	14/07/2021	16:53	Buzzard	1	120	0	0	120	0	cutover bog; soaring, not mapped	AR
BZ623	VP14	14/07/2021	18:02	Buzzard	1	30	0	0	30	0	highly modified/non-native woodland; soaring	AR
BZ625	VP16	15/07/2021	09:06	Buzzard	1	60	0	0	60	0	highly modified/non-native woodland; soaring	AR

Vantage Point Surveys												
Map 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
BZ626	VP16	15/07/2021	11:51	Buzzard	1	10	10	0	0	0	highly modified/non-native woodland and scrub; travelling	AR
BZ627	VP16	15/07/2021	12:02	Buzzard	1	20	0	20	0	0	highly modified/non-native woodland; travelling, adult	AR
BZ628	VP16	15/07/2021	12:04	Buzzard	1	10	0	10	0	0	highly modified/non-native woodland; flying, dropped into woodland	AR
BZ629	VP16	15/07/2021	13:27	Buzzard	1	10	0	0	10	0	highly modified/non-native woodland; soaring	AR
BZ630	VP16	15/07/2021	14:03	Buzzard	1	60	0	0	60	0	highly modified/non-native woodland; soaring	AR
BZ624	VP8	15/07/2021	18:28	Buzzard	1	120	0	120	0	0	highly modified/non-native woodland; hunting	AR
BZ631	VP5	15/07/2021	12:50	Buzzard	3	170	0	0	0	170	cutover bog; one adult and two juveniles observed soaring. calling loudly.	CR
BZ632	VP8	21/07/2021	11:23	Buzzard	1	300	0	0	300	0	cutover bog and scrub; soaring	KB
BZ633	VP11	23/07/2021	11:05	Buzzard	1	35	0	35	0	0	woodland and scrub; flying	ED
BZ634	VP11	23/07/2021	16:24	Buzzard	1	45	0	45	0	0	woodland and scrub; soaring	ED
BZ635	VP10	24/07/2021	10:15	Buzzard	1	30	0	30	0	0	lowland blanket bog and woodland and scrub; soaring	ED
BZ636	VP10	24/07/2021	11:42	Buzzard	1	20	0	20	0	0	lowland blanket bog and woodland and scrub; soaring	ED
BZ637	VP9	26/07/2021	11:54	Buzzard	1	20	0	20	0	0	woodland and scrub; flying	ED
BZ638	VP2	03/08/2021	10:52	Buzzard	1	125	0	125	0	0	cutover bog and mixed broadleaved/conifer woodland; flying, adult buzzard initially observed perched on electric pole, flew towards forestry to the west.	CR
BZ639	VP13	04/08/2021	10:34	Buzzard	1	292	0	0	292	0	cutover bog; soaring	DW
BZ640	VP13	04/08/2021	10:42	Buzzard	1	462	0	12	450	0	cutover bog; soaring	DW

Vantage Point Surveys												
Map 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
BZ641	VP13	04/08/2021	10:46	Buzzard	1	185	0	25	160	0	improved agricultural grassland; soaring and calling	DW
BZ643	VP13	04/08/2021	11:30	Buzzard	1	590	0	0	550	40	cutover bog and improved agricultural grassland; soaring	DW
BZ642	VP13	04/08/2021	11:32	Buzzard	2	358	0	28	330	0	improved agricultural grassland and cutover bog; gliding and soaring together, calling	DW
BZ644	VP13	04/08/2021	12:15	Buzzard	1	351	0	21	330	0	cutover bog; soaring, gliding and travelling, looked like young bird	DW
BZ645	VP13	04/08/2021	13:23	Buzzard	1	74	0	14	60	0	improved agricultural grassland; soaring and travelling	DW
BZ646	VP13	04/08/2021	14:05	Buzzard	1	213	0	63	150	0	cutover bog and improved agricultural grassland; soaring and travelling	DW
BZ647	VP13	04/08/2021	14:05	Buzzard	2	192	0	42	150	0	cutover bog and improved agricultural grassland; soaring and travelling	DW
BZ648	VP3	09/08/2021	15:06	Buzzard	1	10	0	10	0	0	mixed broadleaved/conifer woodland; flying between trees., heard calling.	CR
BZ649	VP3	09/08/2021	16:43	Buzzard	2	130	0	130	0	0	cutover bog and mixed broadleaved/conifer woodland; soaring., adult and juvenile observed soaring above the bog. flew into forestry to the west.	CR
BZ650	VP3	09/08/2021	16:49	Buzzard	1	236	10	15	70	141	cutover bog and mixed broadleaved/conifer woodland; soaring, adult buzzard observed soaring. last seen heading east and was observed diving into small forestry.	CR
BZ651	VP12	12/08/2021	13:11	Buzzard	2	40	40	0	0	0	cutover bog and immature woodland; possible juveniles flying erratically over bog and into trees together	KB

Vantage Point Surveys												
Map 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
BZ652	VP14	19/08/2021	11:49	Buzzard	1	122	0	0	122	0	improved agricultural grassland and conifer plantation; soaring and travelling	DW
BZ653	VP14	19/08/2021	14:01	Buzzard	2	785	0	0	785	0	cutover bog, conifer plantation and improved agricultural grassland; soaring and travelling	DW
BZ654	VP14	19/08/2021	14:04	Buzzard	1	455	0	0	455	0	improved agricultural grassland and conifer plantation; soaring	DW
BZ655	VP14	19/08/2021	15:31	Buzzard	1	196	0	0	150	46	cutover bog; soaring at height	DW
BZ656	VP1	25/08/2021	17:31	Buzzard	1	34	0	34	0	0	bog woodland and cutover bog; flying, calling, very pale undersides indicating it was likely a juvenile. last seen heading northeast.	CR
BZ657	VP16	26/08/2021	10:35	Buzzard	1	168	0	0	168	0	upland blanket bog; soaring	DW
BZ658	VP16	26/08/2021	11:16	Buzzard	1	205	0	0	205	0	upland blanket bog and scrub; soaring	DW
BZ659	VP16	26/08/2021	11:18	Buzzard	1	412	0	112	300	0	upland blanket bog, conifer plantation and improved agricultural grassland; soaring and travelling	DW
BZ660	VP16	26/08/2021	12:03	Buzzard	1	195	0	0	195	0	conifer plantation, improved agricultural grassland and upland blanket bog; soaring	DW
BZ661	VP16	26/08/2021	12:35	Buzzard	1	155	0	0	155	0	improved agricultural grassland; soaring and travelling	DW
BZ662	VP16	26/08/2021	12:36	Buzzard	1	302	0	0	302	0	improved agricultural grassland and upland blanket bog; soaring, calling	DW
BZ663	VP16	26/08/2021	14:01	Buzzard	3	246	0	0	0	246	improved agricultural grassland; soaring together	DW
BZ664	VP16	26/08/2021	14:18	Buzzard	1	274	0	0	274	0	cutover bog and improved agricultural grassland; soaring	DW

Vantage Point Surveys												
Map 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
BZ665	VP16	26/08/2021	14:48	Buzzard	1	835	35	100	700	0	upland blanket bog, scrub and mixed broadleaved woodland; soaring and travelling, calling on/off	DW
BZ666	VP16	26/08/2021	16:02	Buzzard	1	125	0	0	125	0	improved agricultural grassland; soaring	DW
BZ667	VP10	31/08/2021	12:53	Buzzard	1	240	60	180	0	0	cutover bog and mixed broadleaved woodland; soaring	KB
BZ668	VP10	31/08/2021	13:51	Buzzard	1	15	3	12	0	0	mixed broadleaved woodland; foraging	KB
BZ669	VP10	31/08/2021	14:37	Buzzard	2	300	50	100	50	100	mixed broadleaved woodland; soaring	KB
BZ670	VP10	31/08/2021	15:59	Buzzard	1	180	5	35	80	60	mixed broadleaved woodland and cutover bog; soaring	KB
BZ671	VP15	02/09/2021	16:22	Buzzard	1	41	0	21	20	0	cutover bog; travelling	DW
BZ672	VP1	06/09/2021	15:42	Buzzard	1	87	0	0	0	87	cutover bog and wet pedunculate oak-ash woodland; soaring, large adult buzzard soaring high above viewshed. disappeared into thick cloud.	CR
BZ673	VP1	06/09/2021	18:18	Buzzard	2	281	0	0	170	111	cutover bog and bog woodland; soaring, calling, two buzzards soaring in very close formation. last observed heading northeast at high altitude.	CR
BZ674	VP12	08/09/2021	15:36	Buzzard	1	7	7	0	0	0	bogs and treelines; travelling, flew from pole below tree line	TR
BZ675	VP11	09/09/2021	16:48	Buzzard	1	94	0	81	13	0	cutover bog and treelines; travelling, flew over the behind treeline	TR
BZ676	VP4	13/09/2021	15:28	Buzzard	1	102	7	10	85	0	cutover bog; soaring, calling., adult observed heading east. descended beyond a line of trees.	CR
BZ677	VP4	13/09/2021	15:31	Buzzard	1	275	0	0	100	175	cutover bog; soaring, adult buzzard soaring at high altitude.	CR
BZ678	VP13	16/09/2021	14:35	Buzzard	1	175	0	15	160	0	cutover bog; soaring	DW

Vantage Point Surveys												
Map 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
BZ679	VP13	16/09/2021	15:28	Buzzard	1	655	55	300	300	0	improved agricultural grassland, cutover bog and highly modified/non-native woodland; travelling and gliding	DW
BZ680	VP13	16/09/2021	16:43	Buzzard	1	65	10	25	30	0	improved agricultural grassland; soaring and travelling	DW
BZ682	VP6	16/09/2021	17:12	Buzzard	1	41	0	41	0	0	cutover bog; flying, adult with dark brown underside. heading west.	CR
BZ681	VP13	16/09/2021	20:01	Buzzard	1	121	21	70	30	0	improved agricultural grassland and bogs; travelling and hunting	DW
BZ683	VP10	29/09/2021	14:17	Buzzard	3	198	0	40	100	58	cutover bog, improved agricultural grassland and mixed broadleaved/conifer woodland; circling, rising and circling until out of sight	KS
BZ684	VP10	29/09/2021	15:16	Buzzard	1	72	72	0	0	0	cutover bog and bog woodland; hunting	KS
BZ696	VP12	12/10/2021	12:11	Buzzard	1	300	100	200	0	0	cutover bog and improved agricultural grassland; soaring	KS
BZ697	VP3	13/10/2021	12:54	Buzzard	1	489	0	0	200	289	bogs; travelling	JM
BZ698	VP15	15/10/2021	12:41	Buzzard	1	56	10	30	16	0	cutover bog; circling, within 50m b3	KS
BZ699	VP9	26/10/2021	11:11	Buzzard	1	38	0	0	38	0	bogs and bog woodland; travelling/calling	JM
BZ700	VP11	29/10/2021	12:24	Buzzard	2	62	50	12	0	0	bog woodland and bogs; flying/perching, 2 BZ being harassed by a number of crows	JM
BZ701	VP11	29/10/2021	13:10	Buzzard	2	415	0	0	350	65	bogs and bog woodland; travelling	JM
BZ702	VP2	02/11/2021	12:14	Buzzard	3	520	0	30	30	0	bogs and bog woodland; travelling/circling	JM
BZ703	VP2	02/11/2021	13:10	Buzzard	2	65	15	50	65	0	bogs and bog woodland; travelling/circling, landed back in trees	JM

Vantage Point Surveys												
Map 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
BZ704	VP2	02/11/2021	13:42	Buzzard	3	260	0	0	0	0	bogs and bog woodland; travelling	JM
BZ705	VP6	04/11/2021	13:04	Buzzard	5	370	0	0	0	0	bogs and mixed conifer woodland; travelling/circling	JM
BZ706	VP3	08/11/2021	13:04	Buzzard	1	198	0	0	0	0	mixed broadleaved woodland; travelling/circling	JM
BZ707	VP3	08/11/2021	13:42	Buzzard	1	187	0	0	0	0	mixed broadleaved/conifer woodland; travelling/circling	JM
BZ708	VP4	10/11/2021	11:54	Buzzard	1	314	0	0	0	0	bogs; travelling/circling	JM
BZ709	VP16	18/11/2021	16:55	Buzzard	1	20	20	0	20	0	cutover bog and bog woodland; travelling, low along ground	KS
BZ710	VP7	19/11/2021	11:28	Buzzard	1	30	0	10	10	0	immature woodland and cutover bog; soaring	KB
BZ711	VP12	20/11/2021	11:45	Buzzard	1	70	10	30	40	0	cutover bog, scrub and improved agricultural grassland; circling, flying	TS
BZ712	VP11	21/11/2021	12:38	Buzzard	1	15	0	15	15	0	cutover bog and mixed conifer woodland; perched on spruce	TS
BZ713	VP11	21/11/2021	12:38	Buzzard	1	20	0	20	20	0	cutover bog and mixed conifer woodland; second bird	TS
BZ714	VP11	21/11/2021	12:39	Buzzard	1	620	0	80	80	0	cutover bog, improved agricultural grassland and buildings and artificial surfaces; circling	TS
BZ715	VP13	27/11/2021	11:58	Buzzard	1	40	30	10	40	0	scrub and cutover bog; mobbed by RN	TS
BZ716	VP10	10/12/2021	11:05	Buzzard	1	40	0	10	10	0	immature woodland; soaring	KB
BZ717	VP10	10/12/2021	11:23	Buzzard	1	60	0	5	5	45	immature woodland; soaring	KB
BZ718	VP11	21/12/2021	08:46	Buzzard	1	10	10	0	10	0	mixed broadleaved/conifer woodland; perched, moving between telephone poles	KS
BZ719	VP16	23/12/2021	08:14	Buzzard	1	10	10	0	10	0	mixed broadleaved/conifer woodland; calling from trees	KS

Vantage Point Surveys												
Map 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
BZ720	VP12	05/01/2022	13:54	Buzzard	1	30	30	0	30	0	mixed broadleaved/conifer woodland and cutover bog; flushed, mobbed by crow	KS
BZ721	VP4	10/01/2022	12:23	Buzzard	1	40	0	40	40	0	bogs, scrub and bog woodland; travelling	JM
BZ722	VP13	18/01/2022	16:57	Buzzard	1	20	20	0	20	0	mixed broadleaved/conifer woodland and cutover bog; travelling	KS
BZ723	VP11	20/01/2022	13:48	Buzzard	1	3	3	0	3	0	immature woodland; foraging	KB
BZ724	VP11	20/01/2022	16:13	Buzzard	1	4	4	0	4	0	immature woodland and cutover bog; foraging - perched on ESB post	KB
BZ725	VP11	20/01/2022	16:20	Buzzard	1	6	6	0	6	0	immature woodland and cutover bog; foraging	KB
BZ726	VP8	27/01/2022	11:59	Buzzard	2	113	0	20	20	0	cutover bog; soaring\travelling	NM
BZ727	VP8	27/01/2022	12:16	Buzzard	1	300	10	10	20	0	cutover bog; travelling	NM
BZ728	VP8	27/01/2022	12:41	Buzzard	1	180	0	0	0	0	raised bog; soaring	NM
BZ729	VP9	28/01/2022	13:50	Buzzard	1	32	10	15	25	0	raised bog; flying	NM
BZ730	VP9	28/01/2022	15:05	Buzzard	1	230	0	20	20	0	raised bog; circling/travelling	NM
BZ731	VP16	01/02/2022	12:41	Buzzard	1	240	240	0	240	0	mixed broadleaved/conifer woodland and cutover bog; soaring, gliding on wind	KS
BZ732	VP4	02/02/2022	11:44	Buzzard	1	306	10	136	146	0	cutover bog; travelling/hunting	NM
BZ733	VP4	02/02/2022	12:00	Buzzard	1	120	10	40	50	0	cutover bog; hunting	NM
BZ734	VP2	02/02/2022	12:48	Buzzard	1	339	0	2	2	0	mixed broadleaved/conifer woodland and bogs; travelling/circling	JM
BZ735	VP4	02/02/2022	12:50	Buzzard	2	160	20	30	50	0	cutover bog; travelling/hunting, pair appeared to be mobbed by sparrowhawk	NM
BZ736	VP4	02/02/2022	13:03	Buzzard	2	69	0	20	20	0	cutover bog; soaring	NM
BZ737	VP2	02/02/2022	13:34	Buzzard	1	154	4	20	24	0	mixed broadleaved/conifer woodland and bogs; travelling	JM

Vantage Point Surveys												
Map 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
BZ738	VP5	03/02/2022	09:16	Buzzard	1	20	2	10	12	0	cutover bog; travelling	NM
BZ739	VP5	03/02/2022	12:24	Buzzard	1	60	0	10	10	0	cutover bog; soaring/mobbed	NM
BZ740	VP7	09/02/2022	11:54	Buzzard	3	315	30	120	150	0	cutover bog; flying/calling/hunting, first bird from east of viewshed joined by pair from the west	NM
BZ741	VP8	10/02/2022	11:00	Buzzard	2	40	5	25	30	0	improved agricultural grassland and cutover bog; travelling	NM
BZ742	VP8	10/02/2022	11:15	Buzzard	1	456	0	0	0	10	improved agricultural grassland and cutover bog; soaring	NM
BZ743	VP8	10/02/2022	12:12	Buzzard	2	86	0	0	0	0	improved agricultural grassland; soaring/circling	NM
BZ744	VP9	11/02/2022	10:45	Buzzard	1	244	0	0	0	0	cutover bog and conifer plantation; travelling/mobbed, mobbed by hooded crow	NM
BZ745	VP9	11/02/2022	12:05	Buzzard	1	1050	0	0	0	0	improved agricultural grassland, cutover bog and conifer plantation; travelling	NM
BZ746	VP3	11/02/2022	12:36	Buzzard	1	52	0	52	52	0	mixed broadleaved/conifer woodland; travelling/circling	JM
BZ747	VP9	11/02/2022	13:03	Buzzard	1	253	0	0	0	0	cutover bog and conifer plantation; travelling	NM
BZ748	VP9	11/02/2022	13:10	Buzzard	1	140	0	0	0	0	conifer plantation and cutover bog; travelling	NM
BZ749	VP15	14/02/2022	09:28	Buzzard	1	30	30	0	30	0	cutover bog and mixed broadleaved/conifer woodland; hunting	KS
BZ750	VP16	15/02/2022	11:57	Buzzard	1	45	45	0	45	0	cutover bog; travelling	KS
BZ751	VP12	15/02/2022	12:18	Buzzard	2	177	5	2	7	0	cutover bog and mixed broadleaved/conifer woodland; flying	eh

Vantage Point Surveys												
Map 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
BZ752	VP12	15/02/2022	12:25	Buzzard	1	12	0	0	0	0	mixed broadleaved/conifer woodland and buildings and artificial surfaces; flying, perching on electricity pole	EH
BZ753	VP12	15/02/2022	12:27	Buzzard	1	5	0	0	0	0	mixed broadleaved/conifer woodland; flying, lost behind trees	eh
BZ754	VP6	25/02/2022	13:29	Buzzard	2	545	0	25	25	0	bogs and highly modified/non-native woodland; circling	DW
BZ755	VP6	25/02/2022	14:39	Buzzard	1	355	15	20	35	0	improved agricultural grassland and bogs; circling and travelling	DW
BZ756	VP10	01/03/2022	07:19	Buzzard	1	1140			0	1140	mixed broadleaved/conifer woodland; soaring	KB
BZ757	VP10	01/03/2022	08:45	Buzzard	2	120	0	10	10	50	mixed broadleaved/conifer woodland and cutover bog; soaring	KB
BZ758	VP10	01/03/2022	09:12	Buzzard	1	60	5	25	30	0	mixed broadleaved/conifer woodland and cutover bog; soaring	KB
BZ759	VP10	01/03/2022	11:38	Buzzard	1	660	0	60	60	300	mixed broadleaved/conifer woodland and cutover bog; soaring	KB
BZ760	VP10	01/03/2022	11:42	Buzzard	1	180	0	80	80	0	mixed broadleaved/conifer woodland and cutover bog; soaring	KB
BZ761	VP10	01/03/2022	12:00	Buzzard	1	30	0	10	10	0	mixed broadleaved/conifer woodland and cutover bog; soaring	KB
BZ762	VP1	01/03/2022	13:06	Buzzard	1	40	0	30	30	0	mixed broadleaved/conifer woodland and improved agricultural grassland; travelling/calling	JM
BZ763	VP1	01/03/2022	13:20	Buzzard	4	300	0	50	50	0	bogs and mixed broadleaved/conifer woodland; travelling/circling	JM
BZ764	VP1	01/03/2022	13:24	Buzzard	6	985	0	200	200	0	bogs, mixed broadleaved/conifer woodland and improved agricultural grassland; travelling/circling	JM
BZ765	VP1	01/03/2022	13:39	Buzzard	3	150	0	50	50	0	bogs, mixed broadleaved/conifer woodland and improved agricultural grassland; travelling/circling	JM

Vantage Point Surveys												
Map 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
BZ766	VP1	01/03/2022	14:18	Buzzard	3	300	0	50	50	0	mixed broadleaved/conifer woodland and bogs; travelling/circling	JM
BZ767	VP1	01/03/2022	14:55	Buzzard	1	348	0	48	48	0	mixed broadleaved/conifer woodland and bogs; travelling/circling	JM
BZ768	VP1	01/03/2022	15:10	Buzzard	2	480	0	100	100	0	mixed broadleaved/conifer woodland and bogs; travelling/circling	JM
BZ769	VP3	02/03/2022	12:56	Buzzard	2	36	36	0	36	0	conifer plantation and bogs; circling/calling	JM
BZ770	VP3	02/03/2022	13:23	Buzzard	1	70	70	0	70	0	bogs and conifer plantation; travelling	JM
BZ771	VP3	02/03/2022	16:55	Buzzard	3	99	9	60	69	0	conifer plantation and bogs; travelling	JM
BZ772	VP3	02/03/2022	17:39	Buzzard	2	21	21	0	21	0	conifer plantation and bogs; travelling/circling	JM
BZ773	VP12	13/03/2022	14:28	Buzzard	1	480	20	40	60	0	immature woodland and cutover bog; soaring	KB
BZ774	VP12	13/03/2022	14:32	Buzzard	1	240	60	120	180	0	mixed broadleaved/conifer woodland and cutover bog; soaring	KB
BZ775	VP12	13/03/2022	15:39	Buzzard	1	180	20	120	140	0	mixed broadleaved/conifer woodland and cutover bog; soaring	KB
BZ776	VP12	13/03/2022	16:54	Buzzard	1	240	200	40	240	0	cutover bog and immature woodland; foraging	KB
BZ777	VP12	13/03/2022	16:57	Buzzard	1	300	60	60	120	0	mixed broadleaved/conifer woodland and cutover bog; soaring	KB
BZ778	VP12	13/03/2022	17:13	Buzzard	1	100	60	40	100	0	cutover bog and scrub; foraging, not mapped	KB
BZ779	VP13	14/03/2022	13:13	Buzzard	1	165	5	40	45	0	scrub, treelines and improved agricultural grassland; circling, flying	TS
BZ780	VP13	14/03/2022	13:18	Buzzard	1	35	0	10	10	0	cutover bog; flying	TS
BZ781	VP13	14/03/2022	13:42	Buzzard	1	520	10	20	30	0	scrub and cutover bog; circling soaring mobbed	TS
BZ782	VP13	14/03/2022	14:00	Buzzard	1	110	10	60	70	0	cutover bog; circling soaring mobbed	TS

Vantage Point Surveys												
Map 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
BZ783	VP13	14/03/2022	14:02	Buzzard	1	65	10	10	20	0	improved agricultural grassland and conifer plantation; circling, flying	TS
BZ784	VP13	14/03/2022	14:18	Buzzard	1	385	0	0	0	0	cutover bog and scrub; soaring circling	TS
BZ785	VP13	14/03/2022	14:25	Buzzard	1	150	0	0	0	0	cutover bog, scrub and improved agricultural grassland; soaring circling	TS
BZ786	VP13	14/03/2022	14:28	Buzzard	1	690	0	0	0	0	cutover bog and scrub; soaring circling	TS
BZ787	VP13	14/03/2022	14:32	Buzzard	2	490	0	0	0	0	cutover bog and scrub; soaring circling	TS
BZ788	VP13	14/03/2022	15:35	Buzzard	1	110	40	20	60	0	cutover bog and scrub; flying circling	TS
BZ789	VP13	14/03/2022	17:00	Buzzard	1	20	0	20	20	0	cutover bog and scrub; flying	TS
BZ790	VP14	15/03/2022	13:38	Buzzard	1	15	5	10	15	0	cutover bog; flying	TS
BZ791	VP9	16/03/2022	13:58	Buzzard	2	420	0	0	0	120	cutover bog, scrub and immature woodland; soaring	KB
BZ792	VP9	16/03/2022	14:36	Buzzard	2	600	0	0	0	300	cutover bog, scrub and immature woodland; soaring	KB
BZ793	VP9	16/03/2022	14:50	Buzzard	1	180	0	0	0	60	cutover bog, scrub and immature woodland; soaring	KB
BZ794	VP9	16/03/2022	15:13	Buzzard	1	75	0	5	5	50	cutover bog and immature woodland; soaring	KB
BZ795	VP9	16/03/2022	16:47	Buzzard	1	60	0	10	10	0	cutover bog and immature woodland; soaring	KB
BZ796	VP9	16/03/2022	16:53	Buzzard	1	20	0	20	20	0	immature woodland and cutover bog; foraging	KB
BZ797	VP9	16/03/2022	18:32	Buzzard	2	60	0	60	60	0	immature woodland; soaring	KB
BZ798	VP11	17/03/2022	13:05	Buzzard	2	360	0	0	0	120	immature woodland, cutover bog and conifer plantation; soaring	KB
BZ799	VP11	17/03/2022	14:33	Buzzard	1	120	0	0	0	90	immature woodland, cutover bog and conifer plantation; soaring	KB

Vantage Point Surveys												
Map 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
BZ800	VP11	17/03/2022	14:49	Buzzard	1	60	40	20	60	0	immature woodland and cutover bog; foraging	KB
BZ801	VP11	17/03/2022	16:35	Buzzard	1	60	0	20	20	0	cutover bog and conifer plantation; soaring	KB
BZ802	VP11	17/03/2022	16:59	Buzzard	1	120	0	10	10	0	cutover bog and conifer plantation; soaring	KB
BZ803	VP11	17/03/2022	17:11	Buzzard	1	300	0	100	100	0	immature woodland and cutover bog; soaring	KB
BZ804	VP11	17/03/2022	17:11	Buzzard	1	300	0	100	100	0	immature woodland and cutover bog; soaring	KB
BZ805	VP11	17/03/2022	17:14	Buzzard	1	6	6	0	6	0	immature woodland; foraging	KB
BZ806	VP11	17/03/2022	17:21	Buzzard	1	5	5	0	5	0	immature woodland; foraging	KB
BZ807	VP4	21/03/2022	13:39	Buzzard	1	139	0	20	20	0	cutover bog and scrub; circling/soaring	NM
BZ808	VP4	21/03/2022	14:22	Buzzard	1	144	0	0	0	0	raised bog; circling/calling	NM
BZ809	VP4	21/03/2022	15:04	Buzzard	2	291	1	1	2	39	raised bog and conifer plantation; soaring/circling	NM
BZ810	VP4	21/03/2022	15:22	Buzzard	4	136	0	0	0	0	raised bog; circling/aerial diving	NM
BZ811	VP4	21/03/2022	16:00	Buzzard	1	42	0	30	30	0	cutover bog; flying	NM
BZ812	VP5	22/03/2022	16:05	Buzzard	1	305	0	3	3	0	cutover bog and conifer plantation; soaring/circling	NM
BZ813	VP6	23/03/2022	14:14	Buzzard	3	32	0	0	0	0	cutover bog; soaring/circling	NM
BZ814	VP6	23/03/2022	14:27	Buzzard	2	118	0	8	8	0	conifer plantation and raised bog; circling/soaring	NM
BZ815	VP8	25/03/2022	16:43	Buzzard	1	410	0	0	0	0	cutover bog and conifer plantation; soaring/circling	NM
BZ816	VP15	29/03/2022	16:27	Buzzard	2	90	0	0	0	0	cutover bog; soaring/display	KS
BZ817	VP10	30/03/2022	14:52	Buzzard	1	40	10	30	40	0	immature woodland and cutover bog; soaring	KB

Vantage Point Surveys												
Map 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
BZ818	VP10	30/03/2022	16:01	Buzzard	1	15	15	0	15	0	mixed broadleaved/conifer woodland, cutover bog and immature woodland; perched in tree - took up, foraging	KB
BZ819	VP3	05/04/2022	10:21	Buzzard	1	77	7	50	57	0	conifer plantation and bogs; circling/flying	JM
BZ820	VP3	05/04/2022	10:53	Buzzard	2	280	20	100	120	0	conifer plantation and bogs; circling/flying	JM
BZ821	VP3	05/04/2022	11:36	Buzzard	1	134	90	44	134	0	bogs and conifer plantation; travelling	JM
BZ822	VP3	05/04/2022	11:46	Buzzard	2	496	3	3	6	0	conifer plantation and bogs; circling/fly	JM
BZ823	VP3	05/04/2022	11:55	Buzzard	1	690	1	2	3	0	conifer plantation and bogs; circling/fly, sky dancing and breeding behaviour	JM
BZ824	VP3	05/04/2022	12:16	Buzzard	2	116	6	10	16	0	conifer plantation and bogs; travelling/circling	JM
BZ825	VP10	07/04/2022	11:15	Buzzard	1	135	5	10	15	0	mixed broadleaved/conifer woodland and bogs; travelling	JM
BZ826	VP10	07/04/2022	11:57	Buzzard	1	240	240	0	240	0	bogs and mixed broadleaved/conifer woodland; travelling	JM
BZ827	VP11	08/04/2022	10:48	Buzzard	2	85	5	10	15	0	bogs and mixed broadleaved woodland; circling/calling/travelling	JM
BZ828	VP16	23/04/2022	09:22	Buzzard	1	85	40	45	85	0	cutover bog and mixed broadleaved/conifer woodland; hunting, landed on tree	DM
BZ829	VP16	04/05/2022	16:11	Buzzard	2	80	80	0	80	0	mixed broadleaved/conifer woodland and improved agricultural grassland; display	KS
BZ830	VP16	04/05/2022	16:29	Buzzard	1	120	120	0	120	0	cutover bog; travel/soar	KS
BZ831	VP14	04/05/2022	19:46	Buzzard	1	30	30	0	30	0	cutover bog and mixed broadleaved/conifer woodland; mobbed, chased by crow into trees	KS

Vantage Point Surveys												
Map 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
BZ832	VP5	10/05/2022	20:20	Buzzard	2	240	0	0	0	0	heath; soaring	EF
BZ833	VP15	10/05/2022	16:40	Buzzard	1	40	0	40	40	0	cutover bog; soaring	KS
BZ834	VP15	10/05/2022	16:49	Buzzard	2	50	50	0	50	0	cutover bog; display, mobbed	KS
BZ835	VP1	11/05/2022	04:45	Buzzard	1	54	2	4	6	0	conifer plantation and cutover bog; travelling	NM
BZ836	VP1	11/05/2022	05:25	Buzzard	1	182	0	16	16	0	cutover bog and conifer plantation; travelling	NM
BZ837	VP11	11/05/2022	15:31	Buzzard	2	80	0	80	80	0	cutover bog; display	KS
BZ838	VP11	11/05/2022	16:09	Buzzard	1	75	75	0	75	0	cutover bog; hovering	KS
BZ839	VP11	11/05/2022	16:59	Buzzard	1	50	50	0	50	0	cutover bog; gliding	KS
BZ840	VP6	13/05/2022	20:45	Buzzard	1	27	0	0	0	0	heath and scrub/transitional woodland; circling	EF
BZ841	VP3	20/05/2022	20:01	Buzzard	1	12	2	10	12	0	conifer plantation; travelling	NM
BZ842	VP3	20/05/2022	20:04	Buzzard	1	36	0	36	36	0	conifer plantation; travelling/mobbed by hooded crow	NM
BZ843	VP7	30/05/2022	17:56	Buzzard	1	15	0	0	0	0	cutover bog; soaring	KS
BZ844	VP7	30/05/2022	18:23	Buzzard	1	130	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; soaring	KS
BZ845	VP4	31/05/2022	06:06	Buzzard	1	310	0	0	0	0	cutover bog; soaring	NM
BZ846	VP4	31/05/2022	07:12	Buzzard	1	8	2	6	8	0	cutover bog; perched/flight	NM
BZ847	VP4	31/05/2022	07:55	Buzzard	3	261	0	0	0	0	cutover bog; travelling/calling	NM
BZ848	VP10	01/06/2022	16:13	Buzzard	1	35	35	0	35	0	mixed broadleaved/conifer woodland and cutover bog; mobbed	KS
BZ849	VP10	01/06/2022	16:20	Buzzard	2	520	0	340	340	0	cutover bog; soaring, rising out of sight	KS
BZ850	VP10	01/06/2022	16:57	Buzzard	1	600	100	100	200	0	cutover bog; soaring	KS
BZ851	VP10	01/06/2022	19:07	Buzzard	1	15	15	0	15	0	treelines and improved agricultural grassland; in treeline	KS

Vantage Point Surveys												
Map 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
BZ852	VP9	01/06/2022	21:56	Buzzard	2	30	30	0	30	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
BZ853	VP1	08/06/2022	18:52	Buzzard	1	201	0	21	21	0	conifer plantation and cutover bog; foraging/travelling	NM
BZ854	VP1	08/06/2022	19:41	Buzzard	1	234	4	20	24	0	bogs and conifer plantation; travelling/hunting	NM
BZ855	VP12	09/06/2022	18:05	Buzzard	1	125	0	0	0	0	cutover bog and scrub; flying/circling, harassed by RN	EF
BZ856	VP12	09/06/2022	20:15	Buzzard	1	53	38	15	53	0	cutover bog and scrub; hunting, along birch scrub	EF
BZ857	VP12	09/06/2022	20:20	Buzzard	1	10	10	0	10	0	cutover bog and scrub; flying, probably same as map ref. 4	EF
BZ858	VP13	13/06/2022	18:20	Buzzard	1	53	0	0	0	0	cutover bog and scrub; flying/circling, lost behind conifers	EF
BZ859	VP16	26/06/2022	13:35	Buzzard	1	106	0	10	10	0	cutover bog and scrub; flying/hovering, flying along treeline	EF
BZ860	VP15	26/06/2022	16:35	Buzzard	1	45	0	0	0	0	cutover bog and scrub; flying, lost in trees	EF
BZ861	VP15	26/06/2022	16:40	Buzzard	1	133	0	0	0		cutover bog and scrub; circling, circling above trees. lost behind trees. most likely same as map ref. 3	EF
BZ862	VP15	26/06/2022	16:55	Buzzard	1	231	0	0	0	0	cutover bog and scrub; soaring/hovering, dropped into trees	EF
BZ863	VP15	26/06/2022	17:10	Buzzard	1	97	0	0	0	0	cutover bog and scrub; hovering/gliding along, just above tree line	EF
BZ864	VP5	06/07/2022	12:36	Buzzard	1	128	0	0	0	0	cutover bog; soaring	NM
BZ865	VP5	06/07/2022	14:14	Buzzard	1	86	0	0	0	0	cutover bog; calling/soaring	NM
BZ866	VP7	06/07/2022	15:41	Buzzard	1	248	0	0	0	0	cutover bog and conifer plantation; soaring/calling	NM

Vantage Point Surveys												
Map 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
BZ867	VP7	06/07/2022	15:48	Buzzard	1	162	0	0	0	0	cutover bog; soaring/calling	NM
BZ868	VP7	06/07/2022	17:23	Buzzard	2	258	0	0	0	0	bogs and scrub; travelling/calling	NM
BZ869	VP14	07/07/2022	09:43	Buzzard	1	40	0	40	40	0	cutover bog and mixed broadleaved/conifer woodland; hunting	KS
BZ870	VP14	07/07/2022	10:20	Buzzard	1	70	0	70	70	0	cutover bog; hunting	KS
BZ871	VP14	07/07/2022	13:34	Buzzard	1	90	0	0	0	0	cutover bog; soaring	KS
BZ872	VP9	07/07/2022	16:53	Buzzard	1	89	0	0	0	0	conifer plantation and cutover bog; travelling/circling	NM
BZ873	VP9	07/07/2022	18:22	Buzzard	1	62	0	14	14	0	cutover bog; travelling	NM
BZ874	VP8	13/07/2022	14:20	Buzzard	2	256	0	0	0	0	conifer plantation and cutover bog; soaring	NM
BZ875	VP13	14/07/2022	10:54	Buzzard	1	1	1	0	1	0	mixed broadleaved/conifer woodland and cutover bog; juv. calling	KS
BZ876	VP13	14/07/2022	14:05	Buzzard	3	140	0	0	0	0	cutover bog; soaring, 1 juv. begging, mobbing	KS
BZ877	VP13	14/07/2022	15:03	Buzzard	1	70	0	70	70	0	cutover bog; soaring	KS
BZ878	VP13	14/07/2022	15:35	Buzzard	1	120	0	0	0	0	cutover bog; soaring	KS
BZ879	VP12	14/07/2022	16:58	Buzzard	1	490	0	0	0	0	conifer plantation and cutover bog; circling/soaring	NM
BZ880	VP11	15/07/2022	14:36	Buzzard	1	426	0	0	0	0	conifer plantation and cutover bog; soaring/calling	NM
BZ881	VP10	19/07/2022	08:41	Buzzard	1	228	0	0	0	0	cutover bog; soaring	NM
BZ882	VP10	19/07/2022	12:59	Buzzard	1	361	0	0	0	31	conifer plantation and cutover bog; soaring	NM
BZ883	VP16	19/07/2022	13:19	Buzzard	1	5	5	0	5	0	mixed broadleaved/conifer woodland; calling	KS
BZ884	VP16	19/07/2022	14:44	Buzzard	1	5	5	0	5	0	cutover bog and mixed broadleaved/conifer woodland; calling	KS

Vantage Point Surveys												
Map 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
BZ885	VP11	19/07/2022	15:26	Buzzard	2	228	0	0	0	0	conifer plantation and cutover bog; soaring/calling	NM
BZ886	VP11	19/07/2022	16:05	Buzzard	1	261	5	20	25	0	conifer plantation and cutover bog; hunting/calling	NM
BZ887	VP11	19/07/2022	16:29	Buzzard	1	181	0	10	10	0	cutover bog and conifer plantation; travelling	NM
BZ888	VP9	21/07/2022	15:29	Buzzard	1	152	0	0	0	0	conifer plantation and bogs; soaring	NM
BZ889	VP9	21/07/2022	15:42	Buzzard	1	170	0	0	0	0	conifer plantation and bogs; soaring/travelling	NM
BZ890	VP3	26/07/2022	09:15	Buzzard	1	37	2	35	37	0	cutover bog and scrub; circling, landed in conifer	EF
BZ891	VP3	26/07/2022	10:40	Buzzard	1	142	0	0	0	0	cutover bog and scrub; circling/hovering, lost view	EF
BZ892	VP3	26/07/2022	11:20	Buzzard	3	87	0	2	2	0	cutover bog and scrub; circling, went into conifers	EF
BZ893	VP3	26/07/2022	13:00	Buzzard	1	86	0	0	0	0	cutover bog and scrub; circling, went below tree line	EF
BZ894	VP3	26/07/2022	14:10	Buzzard	1	51	0	0	0	0	cutover bog and scrub; circling, lost behind trees	EF
BZ895	VP3	26/07/2022	14:45	Buzzard	1	45	0	0	0	0	cutover bog and scrub; circling, lost view	EF
BZ896	VP1	28/07/2022	10:25	Buzzard	1	20	0	0	0	0	cutover bog and scrub; circling, lost view	EF
BZ897	VP1	28/07/2022	10:35	Buzzard	1	76	0	4	4	0	cutover bog and scrub; circling, went down behind trees	EF
BZ898	VP1	28/07/2022	11:00	Buzzard	2	142	0	0	0	0	cutover bog and scrub; circling, lost view	EF
BZ899	VP1	28/07/2022	12:05	Buzzard	1	47	0	0	0	0	cutover bog and scrub; circling, lost behind trees	EF
BZ900	VP1	28/07/2022	12:50	Buzzard	1	120	0	0	0	0	cutover bog and scrub; circling/landed, landed in tree	EF

Vantage Point Surveys												
Map 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
BZ901	VP1	28/07/2022	13:40	Buzzard	1	20	0	20	20	0	cutover bog and scrub; flying, lost behind trees	EF
BZ902	VP1	28/07/2022	14:15	Buzzard	1	93	0	0	0	0	cutover bog and scrub; circling, lost view	EF
BZ903	VP2	29/07/2022	09:15	Buzzard	1	26	26	0	26	0	cutover bog and scrub; flying low, lost in scrub	EF
BZ904	VP2	29/07/2022	09:55	Buzzard	1	42	0	0	0	0	cutover bog and scrub; circling, lost view	EF
BZ905	VP2	29/07/2022	10:10	Buzzard	1	155	0	0	0	0	cutover bog and scrub; circling, dropped down, lost behind trees	EF
BZ906	VP2	29/07/2022	10:50	Buzzard	2	97	0	0	0	0	cutover bog and scrub; circling/flying, lost behind	EF
BZ907	VP2	29/07/2022	13:50	Buzzard	1	28	0	28	28	0	cutover bog and scrub; flying, went below tree line	EF
BZ908	VP2	29/07/2022	14:05	Buzzard	2	108	0	8	8	0	cutover bog and scrub; circling/flying, went below tree line	EF
BZ909	VP1	05/08/2022	10:20	Buzzard	1	35	35	0	35	0	cutover bog and mixed broadleaved/conifer woodland; travelling, along treeline	KS
BZ910	VP1	05/08/2022	11:06	Buzzard	1	10	10	0	10	0	mixed conifer woodland; juv. call	KS
BZ911	VP1	05/08/2022	12:09	Buzzard	1	450	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; soaring	KS
BZ912	VP2	11/08/2022	10:29	Buzzard	1	5	5	0	5	0	cutover bog; juvenile calling	KS
BZ913	VP2	11/08/2022	11:37	Buzzard	1	180	0	180	180	0	cutover bog; soaring	KS
BZ914	VP4	11/08/2022	11:56	Buzzard	1	64	2	2	4	0	cutover bog; soaring	NM
BZ915	VP2	11/08/2022	12:03	Buzzard	2	150	0	0	0	0	cutover bog; soaring	KS
BZ916	VP6	19/08/2022	12:48	Buzzard	1	233	0	0	0	0	conifer plantation, improved agricultural grassland and bogs; soaring	NM

Vantage Point Surveys												
Map 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
BZ917	VP6	19/08/2022	16:40	Buzzard	2	401	0	0	0	0	conifer plantation and cutover bog; soaring/travelling	NM
BZ918	VP8	23/08/2022	15:05	Buzzard	2	632	0	0	0	0	cutover bog and conifer plantation; travelling/soaring	NM
BZ919	VP8	23/08/2022	16:00	Buzzard	1	281	0	0	0	0	cutover bog and conifer plantation; travelling	NM
BZ920	VP8	23/08/2022	20:02	Buzzard	1	70	0	4	4	0	cutover bog and conifer plantation; travelling	NM
BZ921	VP3	24/08/2022	11:17	Buzzard	1	5	5	0	5	0	cutover bog; call	KS
BZ922	VP3	24/08/2022	11:30	Buzzard	1	50	0	50	50	0	cutover bog and mixed broadleaved/conifer woodland; soaring/gliding	KS
BZ923	VP3	24/08/2022	11:40	Buzzard	1	40	0	40	40	0	cutover bog; soaring	KS
BZ924	VP3	24/08/2022	12:06	Buzzard	5	120	0	60	60	0	cutover bog; soaring	KS
BZ925	VP9	24/08/2022	12:08	Buzzard	1	128	0	6	6	0	conifer plantation and cutover bog; travelling	NM
BZ926	VP9	24/08/2022	14:48	Buzzard	1	253	0	0	0	0	conifer plantation, cutover bog and improved agricultural grassland; soaring	NM
BZ927	VP9	24/08/2022	17:21	Buzzard	1	270	0	0	0	0	cutover bog and conifer plantation; travelling	NM
BZ928	VP7	25/08/2022	11:45	Buzzard	1	195	0	0	0	0	heath and scrub; soaring	EF
BZ929	VP7	25/08/2022	12:55	Buzzard	1	24	0	0	0	0	heath and scrub; direct flight, lost behind scrub line	EF
BZ930	VP8	25/08/2022	14:15	Buzzard	1	12	0	0	0	0	heath and scrub; direct flight, lost behind trees	EF
BZ931	VP8	25/08/2022	15:05	Buzzard	1	8	0	0	0	0	heath and scrub; drifted behind trees	EF
BZ932	VP8	25/08/2022	16:00	Buzzard	1	233	0	0	0	0	heath and scrub; circling, circling/hanging in the air. lost behind trees	EF

Vantage Point Surveys												
Map 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
BZ933	VP14	25/08/2022	10:02	Buzzard	1	5	5	0	5	0	cutover bog; calling	KS
BZ934	VP14	25/08/2022	12:36	Buzzard	1	5	50	0	50	0	cutover bog; juv. calling	KS
BZ935	VP10	25/08/2022	14:36	Buzzard	1	325	0	0	0	0	cutover bog, conifer plantation and improved agricultural grassland; soaring	NM
BZ936	VP9	26/08/2022	11:40	Buzzard	1	63	0	0	0	0	heath and scrub; circling, lost behind trees	EF
BZ937	VP10	26/08/2022	13:10	Buzzard	1	49	0	0	0	0	cutover bog and scrub; circling above trees, dipped below treeline	EF
BZ938	VP10	26/08/2022	13:55	Buzzard	1	68	0	0	0	0	cutover bog and scrub; circling above trees, lost behind trees	EF
BZ939	VP10	26/08/2022	14:40	Buzzard	1	30	0	0	0	30	cutover bog and scrub; soaring, lost view	EF
BZ940	VP10	26/08/2022	15:30	Buzzard	1	49	0	9	9	0	cutover bog and scrub; circling, circling then flew directly over trees. lost view over trees	EF
BZ941	VP15	28/08/2022	15:35	Buzzard	1	72	0	0	0	0	cutover bog and scrub; soaring, lost view	EF
BZ942	VP12	29/08/2022	13:20	Buzzard	2	113	0	23	23	0	cutover bog and scrub; circling above trees, lost behind trees	EF
BZ943	VP12	29/08/2022	13:55	Buzzard	2	276	0	0	0	276	cutover bog and scrub; soaring, soaring very high up. lost view	EF
BZ944	VP16	30/08/2022	11:15	Buzzard	2	167	0	0	0	97	heath and scrub; soaring, lost view	EF
BZ945	VP16	30/08/2022	11:55	Buzzard	3	289	0	0	0	0	heath and scrub; soaring, lost behind scrub/treeline	EF
BZ946	VP16	30/08/2022	12:10	Buzzard	1	56	0	0	0	0	heath and scrub; circling then flew directly behind scrub, lost behind scrub/treeline	EF
BZ947	VP16	30/08/2022	12:20	Buzzard	1	33	3	0	3	0	heath and scrub; drifting along. dived suddenly below treeline, lost behind treeline	EF

Vantage Point Surveys												
Map 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
BZ948	VP16	30/08/2022	13:40	Buzzard	1	42	0	0	0	0	heath and scrub; drifting along treeline, lost in trees	EF
BZ949	VP14	30/08/2022	15:25	Buzzard	1	48	0	48	48	0	cutover bog and scrub; direct flight, lost behind trees	EF
BZ950	VP13	30/08/2022	12:15	Buzzard	1	45	20	25	45	0	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland; soaring	KS
BZ951	VP13	30/08/2022	13:52	Buzzard	1	35	10	25	35	0	mixed broadleaved/conifer woodland; soaring	KS
BZ952	VP13	30/08/2022	14:09	Buzzard	1	80	0	0	0	0	cutover bog; soaring	KS
BZ953	VP3	30/08/2022	15:42	Buzzard	1	82	0	0	0	0	cutover bog and conifer plantation; soaring/mobbed, mobbed by crows	NM
BZ954	VP3	30/08/2022	15:52	Buzzard	2	93	15	78	93	0	cutover bog and conifer plantation; travelling/calling	NM
BZ955	VP3	30/08/2022	15:59	Buzzard	1	485	12	8	20	0	conifer plantation, improved agricultural grassland and bogs; soaring	NM
BZ956	VP3	30/08/2022	17:56	Buzzard	1	18	15	3	18	0	conifer plantation and cutover bog; travelling/mobbed	NM
BZ957	VP4	30/08/2022	20:32	Buzzard	1	89	0	0	0	0	cutover bog; travelling	NM
BZ958	VP12	31/08/2022	14:04	Buzzard	1	254	0	0	0	0	improved agricultural grassland and conifer plantation; soaring	NM
BZ959	VP12	31/08/2022	14:40	Buzzard	1	310	0	65	65	0	conifer plantation, improved agricultural grassland and cutover bog; soaring/calling	NM
BZ960	VP12	31/08/2022	14:45	Buzzard	1	122	2	120	122	0	cutover bog and conifer plantation; travelling	NM
BZ961	VP12	31/08/2022	17:01	Buzzard	1	24	16	8	24	0	conifer plantation and improved agricultural grassland; travelling	NM

Vantage Point Surveys												
Map 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
BZ962	VP11	01/09/2022	14:08	Buzzard	1	249	0	12	12	0	conifer plantation, improved agricultural grassland and cutover bog; travelling	NM
BZ963	VP11	01/09/2022	15:24	Buzzard	1	136	0	12	12	0	conifer plantation, improved agricultural grassland and cutover bog; travelling	NM
BZ964	VP16	02/09/2022	12:22	Buzzard	1	80	0	80	80	0	cutover bog; soaring	KS
BZ965	VP16	02/09/2022	12:22	Buzzard	1	60	60	0	60	0	cutover bog; soaring	KS
BZ966	VP16	02/09/2022	12:30	Buzzard	3	280	0	0	0	0	cutover bog; soaring	KS
BZ967	VP11	06/09/2022	18:09	Buzzard	1	324	0	0	0	0	conifer plantation, cutover bog and improved agricultural grassland; soaring/travelling	NM
BZ968	VP13	08/09/2022	14:43	Buzzard	3	180	0	0	0	0	mixed broadleaved/conifer woodland, improved agricultural grassland and cutover bog; soaring	KS
BZ969	VP13	08/09/2022	15:27	Buzzard	3	350	0	0	0	0	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland; soaring	KS
BZ970	VP13	08/09/2022	15:27	Buzzard	1	90	0	90	90	0	cutover bog; gliding	KS
BZ971	VP10	08/09/2022	17:07	Buzzard	1	201	0	0	0	0	conifer plantation and improved agricultural grassland; soaring/calling	NM
BZ972	VP9	09/09/2022	16:17	Buzzard	1	136	0	136	136	0	conifer plantation, cutover bog and improved agricultural grassland; travelling, initially seen with other BZ but split up after some time	NM
BZ973	VP9	09/09/2022	16:19	Buzzard	1	412	0	136	136	0	conifer plantation, cutover bog and improved agricultural grassland; soaring/mobbed, spent some time with other buzzard before splitting up	NM

Vantage Point Surveys												
Map 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
BZ974	VP9	09/09/2022	16:55	Buzzard	1	362	0	0	0	0	improved agricultural grassland and conifer plantation; soaring	NM
BZ975	VP11	12/09/2022	06:31	Buzzard	1	0	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; calling	KS
BZ976	VP12	12/09/2022	11:48	Buzzard	1	20	20	0	20	0	cutover bog; landed on ground, flew, on ground for ~15mins, flew ne	KS
BZ977	VP12	13/09/2022	14:33	Buzzard	1	120	120	0	120	0	cutover bog and mixed broadleaved/conifer woodland; soaring	KS
BZ978	VP12	13/09/2022	15:36	Buzzard	1	60	2	3	5	0	cutover bog; soaring, mobbed	KS
BZ979	VP12	13/09/2022	15:46	Buzzard	1	30	0	30	30	0	cutover bog; circling, mobbed	KS
BZ980	VP12	13/09/2022	16:00	Buzzard	1	20	5	15	20	0	mixed broadleaved woodland; rising	KS
BZ981	VP12	13/09/2022	16:14	Buzzard	1	20	0	20	20	0	mixed broadleaved woodland; gliding	KS
BZ982	VP12	13/09/2022	16:25	Buzzard	2	50	30	20	50	0	mixed broadleaved woodland and cutover bog; soaring	KS
BZ983	VP14	15/09/2022	06:43	Buzzard	1	0	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; call	KS
BZ984	VP14	15/09/2022	07:19	Buzzard	1	0	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; calling	KS
BZ985	VP16	20/09/2022	09:06	Buzzard	1	0	0	0	0	0	mixed broadleaved/conifer woodland; calling	KS
BZ986	VP2	21/09/2022	08:24	Buzzard	1	20	0	20	20	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
BZ987	VP1	21/09/2022	10:37	Buzzard	1	20	0	20	20	0	cutover bog and mixed broadleaved/conifer woodland; gliding	KS
BZ988	VP1	21/09/2022	11:07	Buzzard	1	420	0	100	100	0	cutover bog and mixed broadleaved/conifer woodland; soaring, rising higher	KS

Vantage Point Surveys												
Map 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
BZ989	VP1	21/09/2022	11:20	Buzzard	1	30	0	30	30	0	cutover bog and mixed broadleaved/conifer woodland; soaring	KS
BZ990	VP16	23/09/2022	14:48	Buzzard	2	760	0	200	200	0	cutover bog and mixed broadleaved/conifer woodland; mobbing/soaring	KS
BZ991	VP16	23/09/2022	15:03	Buzzard	2	240	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; soaring	KS
BZ992	VP16	23/09/2022	16:18	Buzzard	1	10	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; soaring, behind k	KS
BZ993	VP16	23/09/2022	18:46	Buzzard	1	0	0	0	0	0	mixed broadleaved/conifer woodland and cutover bog; calling	KS
BZ994	VP13	24/09/2022	14:25	Buzzard	1	44	0	0	0	0	cutover bog and scrub; circling, lost behind trees	EF
BZ995	VP13	24/09/2022	14:45	Buzzard	1	33	0	0	0	0	cutover bog and scrub; circling, lost to view. cloud?	EF
BZ996	VP13	24/09/2022	15:20	Buzzard	1	268	0	0	0	0	cutover bog and scrub; circling, lost to view	EF
BZ997	VP1	27/09/2022	14:10	Buzzard	2	29	0	0	0	0	cutover bog and scrub; circling, lost behind trees	EF
BZ998	VP1	27/09/2022	15:00	Buzzard	1	44	14	30	44	0	cutover bog and scrub; direct flight, lost in trees	EF
BZ999	VP1	27/09/2022	15:05	Buzzard	1	14	0	0	0	0	cutover bog and scrub; circling, lost behind trees	EF
BZ1000	VP1	27/09/2022	16:15	Buzzard	1	11	11	0	11	0	cutover bog and scrub; low direct flight, lost behind trees	EF
BZ1001	VP3	28/09/2022	14:15	Buzzard	1	127	0	0	0	0	cutover bog and scrub; circling, lost behind scrub/treeline	EF
BZ1002	VP3	28/09/2022	14:30	Buzzard	1	28	0	0	0	0	cutover bog and scrub; circling, went behind trees	EF

Vantage Point Surveys												
Map 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
BZ1003	VP3	28/09/2022	14:40	Buzzard	2	115	0	0	0	0	cutover bog and scrub; circling, lost to view	EF
BZ1004	VP3	28/09/2022	15:15	Buzzard	1	12	0	0	0	0	cutover bog and scrub; gliding along treeline, lost behind trees	EF
BZ1005	VP5	29/09/2022	14:40	Buzzard	1	35	0	0	0	0	heath and scrub; direct flight, lost behind scrub/treeline	EF
BZ1006	VP5	29/09/2022	15:00	Buzzard	1	40	0	0	0	0	heath and scrub; circling, lost to view	EF
BZ1007	VP12	30/09/2022	16:34	Buzzard	1	21	18	3	21	0	conifer plantation and cutover bog; travelling	NM
BZ1008	VP11	30/09/2022	18:26	Buzzard	1	218	0	196	196	0	conifer plantation and cutover bog; travelling/mobbed	NM
BZ1009	VP10	14/10/2022	07:18	Buzzard	1	0	0	0	0	0	mixed broadleaved/conifer woodland; calling	KS
BZ1010	VP10	14/10/2022	08:43	Buzzard	1	0	0	0	0	0	mixed broadleaved/conifer woodland; calling	KS
BZ1011	VP9	14/10/2022	11:25	Buzzard	1	45	0	45	45	0	cutover bog and mixed broadleaved/conifer woodland; soaring	KS
BZ1012	VP10	14/10/2022	11:53	Buzzard	1	240	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; soaring	KS
BZ1013	VP10	14/10/2022	12:58	Buzzard	1	90	0	0	0	0	cutover bog; soaring	KS

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ480	VP1	27/08/2020	18:51	Buzzard	1	improved agricultural grassland; calling	PM
BZ481	VP11	09/09/2020	07:45	Buzzard	1	cutover bog and mixed broadleaved/conifer woodland; perched on ESB pole	DM

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ482	VP1	30/09/2020	08:30	Buzzard	1	cutover bog; calling	DW
BZ483	VP7	02/11/2020	07:15	Buzzard	1	mixed broadleaved/conifer woodland and cutover bog; calling, heard only	DM
BZ484	VP12	17/11/2020	07:30	Buzzard	1		DM
BZ485	VP2	25/01/2021	14:46	Buzzard	1	hedgerows; perching	DW
BZ486	VP7	05/01/2021	08:00	Buzzard	1	cutover bog and mixed broadleaved/conifer woodland; calling, heard only	DM
BZ487	VP3	17/02/2021	13:15	Buzzard	1	cutover bog; perched, perched on dead tree	DW
BZ488	VP12	10/02/2021	17:34	Buzzard	1	conifer plantation; calling heard in conifers behind VP	KB
BZ489	VP14	17/03/2021	07:18	Buzzard	1	conifer plantation and cutover bog; calling heard in trees	KB
BZ490	VP14	17/03/2021	10:12	Buzzard	1	immature woodland and cutover bog; calling heard in trees	KB
BZ491	VP15	19/03/2021	08:30	Buzzard	1	cutover bog, scrub and immature woodland; calling heard north of VP	KB
BZ492	VP15	19/03/2021	09:07	Buzzard	2	immature woodland and cutover bog; calling heard west of VP	KB
BZ685	VP5	07/04/2021	16:00	Buzzard	1	cutover bog and mixed broadleaved/conifer woodland; left tree, dropped out of site	DM
BZ686	VP11	07/05/2021	10:02	Buzzard	1	cutover bog and immature woodland; perched on ESB pole - remained for duration of survey	KB
BZ687	VP12	17/06/2021	18:35	Buzzard	1	conifer plantation and cutover bog; calling., heard not seen.	PW
BZ688	VP3	23/06/2021	13:50	Buzzard	2	mixed broadleaved woodland; perched in ash and willow calling to each other, one of these BZ recorded flying to and from this perch numerous times during the survey period, while the other stayed perched. possible pair, though no prey provisioning or juveniles observed so breeding could not be confirmed.	SI
BZ689	VP2	03/08/2021	10:49	Buzzard	1	cutover bog; perched on electric pole., adult	CR

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ690	VP3	09/08/2021	15:21	Buzzard	1	mixed broadleaved/conifer woodland; calling, buzzard heard calling in woodland.	CR
BZ691	VP1	25/08/2021	13:45	Buzzard	1	bog woodland; calling, buzzard heard calling from woodland ahead of VP.	CR
BZ692	VP16	26/08/2021	11:32	Buzzard	1	upland blanket bog; calling heard	DW
BZ693	VP12	08/09/2021	15:09	Buzzard	1	bogs; perched on pole	TR
BZ694	VP12	08/09/2021	16:59	Buzzard	1	bogs; calling	TR
BZ695	VP7	17/09/2021	15:24	Buzzard	1	cutover bog; calling, heard calling continuously for 15 seconds.	CR
BZ1014	VP2	11/10/2021	07:20	Buzzard	1	bogs and bog woodland; calling, BZ heard and not seen	JM
BZ1015	VP2	11/10/2021	09:10	Buzzard	1	bog woodland; calling, heard calling, not seen	JM
BZ1016	VP2	11/10/2021	09:45	Buzzard	1	bog woodland; calling, heard calling only	JM
BZ1017	VP1	20/10/2021	08:55	Buzzard	1	mixed broadleaved/conifer woodland; calling, not seen, only heard	JM
BZ1018	VP7	22/10/2021	09:27	Buzzard	1	bogs and bog woodland; calling	JM
BZ1019	VP9	26/10/2021	09:02	Buzzard	1	bog woodland and bogs; calling	JM
BZ1020	VP11	29/10/2021	11:11	Buzzard	1	bog woodland and bogs; perched	JM
BZ1021	VP11	20/01/2022	11:20	Buzzard	1	cutover bog and immature woodland; perched on ESB post	KB
BZ1022	VP1	15/02/2022	12:29	Buzzard	1	buildings and artificial surfaces; perched on electricity pole	EH
BZ1023	VP5	29/07/2022	16:59	Buzzard	1	conifer plantation; perched, likely nest location. adult agitated by surveyor presence	NM
BZ1024	VP13	28/08/2022	09:20	Buzzard	1	cutover bog and scrub; perched on tree, didn't see it leave	EF

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ001	20/04/2020	10:14	Buzzard	1	bog woodland; hunting over birch woodland	PT
BZ002	20/04/2020	14:43	Buzzard	1	scrub/transitional woodland; circling/hovering	PT
BZ003	20/04/2020	16:17	Buzzard	1	cutover bog; hunting over cutover	PT
BZ004	20/04/2020	16:26	Buzzard	1	raised bog and bog woodland; drifting/circling	PT
BZ005	20/04/2020	16:53	Buzzard	2	cutover bog; 1 on cutover, joined by a second bird	PT
BZ006	20/04/2020	16:55	Buzzard	1	cutover bog, raised bog and bog woodland; one (from previous sighting) flew off	PT
BZ007	20/04/2020	16:58	Buzzard	1	bog woodland, cutover bog and conifer plantation; circled up high then drifted	PT
BZ008	22/04/2020	10:24	Buzzard	1	cutover bog; circling/drifting	PT
BZ009	22/04/2020	11:42	Buzzard	1	scrub and cutover bog; flushed from gorse scrub, flew off low across cutover	PT
BZ010	22/04/2020	11:43	Buzzard	3	cutover bog; circling	PT
BZ011	22/04/2020	12:27	Buzzard	3	improved agricultural grassland and woodland and scrub; circling	PT
BZ012	22/04/2020	12:31	Buzzard	1	cutover bog and bog woodland; hovering high, then stooped	PT
BZ013	22/04/2020	12:34	Buzzard	2	cutover bog; circling high together	PT
BZ014	22/04/2020	12:54	Buzzard	1	woodland and scrub; circling, initially tree top height, close to tall oaks	PT
BZ015	22/04/2020	13:03	Buzzard	1	cutover bog; circling up high, then drifted; additional to previous bird (over oaks again).	PT
BZ016	27/04/2020	11:42	Buzzard	1	improved agricultural grassland and treelines; circling; dropped over pasture	PT
BZ017	27/04/2020	12:34	Buzzard	1	woodland and scrub; flying/display	PT
BZ018	27/04/2020	13:47	Buzzard	3	cutover bog; two circling, joined by third bird	PT
BZ019	27/04/2020	13:51	Buzzard	2	raised bog and cutover bog; one circling, joined by second bird	PT
BZ020	27/04/2020	15:39	Buzzard	1	improved agricultural grassland and treelines; circling up	PT

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ021	27/04/2020	17:56	Buzzard	1	improved agricultural grassland and cutover bog; flying then circling	PT
BZ022	28/04/2020	11:22	Buzzard	1	bog woodland; glided across ride just above treetop height	PT
BZ023	28/04/2020	11:33	Buzzard	1	cutover bog; circled up high then drifted	PT
BZ024	28/04/2020	12:02	Buzzard	1	bog woodland and cutover bog; flying around fairly low then circled up before drifting down	PT
BZ025	28/04/2020	12:20	Buzzard	2	improved agricultural grassland and cutover bog; one circled up then hovering high, joined by second bird up high; both moved ne, circling together; one then did fast glide to SE	PT
BZ026	08/05/2020	13:16	Buzzard	2	cutover bog and bog woodland; circling, 1 then drifted south	PT
BZ027	08/05/2020	17:23	Buzzard	1	bog woodland; direct flight	PT
BZ028	08/05/2020	18:36	Buzzard	1	improved agricultural grassland and bog woodland; low flight, swooped up towards tree	PT
BZ029	11/05/2020	11:38	Buzzard	1	cutover bog and bog woodland; hanging on wind up high, hunting	PT
BZ030	11/05/2020	12:49	Buzzard	1	cutover bog, raised bog and scrub; flew towards me, fairly low, circled up high, drifted down, then circling.	PT
BZ031	11/05/2020	13:04	Buzzard	2	cutover bog and treelines; circling up together	PT
BZ032	11/05/2020	14:05	Buzzard	1	improved agricultural grassland and treelines; flying/circling, initially low, with prey, gained height	PT
BZ033	11/05/2020	15:49	Buzzard	1	improved agricultural grassland and treelines; calling and low flights around mature trees - ideal nesting habitat. remained nearby, hunting from low perches.	PT
BZ034	11/05/2020	16:11	Buzzard	3/4	improved agricultural grassland, treelines and bog woodland; initially one circling low, then 3, probably 4, circling up; at least one calling; original bird once sped back to area of obs.no.12 (perhaps to mob another BZ out of view). 1 circling again at 1637.	PT
BZ035	11/05/2020	17:29	Buzzard	2	cutover bog, raised bog and bog woodland; initially one, joined by second, circling together, gaining height.	PT

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ036	11/05/2020	17:37	Buzzard	3	bog woodland and scrub; one, joined by two from south-west (birds from obs.no.14?), one of which briefly sky danced high before fast stoop. some calling.	PT
BZ037	14/05/2020	17:04	Buzzard	1	cutover bog and bog woodland; circling/hovering	PT
BZ038	14/05/2020	18:01	Buzzard	1	improved agricultural grassland and treelines; prolonged circling up, hovering	PT
BZ039	15/05/2020	09:10	Buzzard	1	scrub, improved agricultural grassland and cutover bog; perched on trees twice, flying, circling	PT
BZ040	19/05/2020	15:26	Buzzard	3	cutover bog; 2 circling up, joined by third bird over cutover; prolonged circling together.	PT
BZ041	19/05/2020	15:47	Buzzard	1	cutover bog and improved agricultural grassland; circling high, drifted, then high hovering	PT
BZ042	19/05/2020	16:08	Buzzard	1	bog woodland; calling, circling, low flight over forest, dropped down out of view.	PT
BZ043	19/05/2020	19:10	Buzzard	1	improved agricultural grassland and treelines; low flight across field, landed on hawthorn; possibly disturbed from mature trees along track - ideal nesting habitat.	PT
BZ044	20/05/2020	09:44	Buzzard	1	bog woodland, cutover bog and improved agricultural grassland; possibly disturbed from woodland edge, gained height	PT
BZ045	20/05/2020	11:43	Buzzard	1	bog woodland and improved agricultural grassland; circling/hovering, low	PT
BZ046	02/06/2020	10:44	Buzzard	1	cutover bog; circling	PT
BZ047	02/06/2020	10:59	Buzzard	2	bogs, woodland and scrub and improved agricultural grassland; circling high	PT
BZ048	02/06/2020	11:10	Buzzard	1	bog woodland; circling low	PT
BZ049	02/06/2020	12:20	Buzzard	1	woodland and scrub and cutover bog; hovering briefly	PT
BZ050	02/06/2020	14:34	Buzzard	1	woodland and scrub and cutover bog; hovering/ circling	PT
BZ051	02/06/2020	14:58	Buzzard	1	conifer plantation; circling	PT
BZ052	02/06/2020	15:10	Buzzard	1	improved agricultural grassland and treelines; landed in ash tree, seen off by crow	PT

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ053	02/06/2020	15:49	Buzzard	1	mixed broadleaved woodland; perched on spruce, flew away when it saw me	PT
BZ054	02/06/2020	16:07	Buzzard	1	bog woodland; flew up as I approached	PT
BZ055	08/06/2020	15:31	Buzzard	1	cutover bog, raised bog and woodland and scrub; circling up, went high, drifted, circled briefly then fast stoop down	PT
BZ056	08/06/2020	16:34	Buzzard	1	improved agricultural grassland; flying, in 2km buffer	PT
BZ057	08/06/2020	17:32	Buzzard	1	arable crops, improved agricultural grassland and treelines; circling low over arable field then went up high, hunting; flew back over arable field, calling repeatedly, dropped to ash tree in 1750, continued calling, seemed agitated by my presence; likely to be nesting in large trees nearby	PT
BZ058	09/06/2020	08:19	Buzzard	1	cutover bog and bog woodland; circling, then direct flight to wooded area	PT
BZ059	09/06/2020	12:32	Buzzard	1	improved agricultural grassland and treelines; carrying small rodent, flew to large beeches; most likely delivering prey to nest	PT
BZ060	09/06/2020	12:34	Buzzard	1	improved agricultural grassland; low direct flight, probably same bird as previous sighting	PT
BZ061	09/06/2020	12:54	Buzzard	1	immature woodland; low flight	PT
BZ062	09/06/2020	13:10	Buzzard	1	woodland and scrub; circling, then low flight	PT
BZ063	20/06/2020	09:55	Buzzard	1	cutover bog and improved agricultural grassland; circling then hunting	PT
BZ064	20/06/2020	10:14	Buzzard	1	improved agricultural grassland; hunting, low	PT
BZ065	20/06/2020	10:14	Buzzard	1	cutover bog and improved agricultural grassland; flying	PT
BZ066	20/06/2020	13:39	Buzzard	1	raised bog and bog woodland; hunting	PT
BZ067	20/06/2020	13:48	Buzzard	1	bog woodland and cutover bog; flying round small area, hunting	PT
BZ068	20/06/2020	14:54	Buzzard	1	raised bog and bog woodland; hunting low	PT
BZ069	20/06/2020	15:04	Buzzard	1	bog woodland and improved agricultural grassland; hunting low	PT
BZ070	20/06/2020	15:43	Buzzard	1	treelines, scrub and improved agricultural grassland; hunting/hovering	PT

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ071	24/06/2020	12:00	Buzzard	1	cutover bog; circling, then drifted low	PT
BZ072	24/06/2020	14:28	Buzzard	1	bog woodland and cutover bog; circling up, calling, drifted down to join second bird, both circled up high together	PT
BZ073	25/06/2020	08:56	Buzzard	1	improved agricultural grassland and conifer plantation; flew across pasture, landed on forest edge	PT
BZ074	01/07/2020	13:28	Buzzard	1	cutover bog and bog woodland; direct flight, height 30m → 15m	PT
BZ075	01/07/2020	16:14	Buzzard	1	cutover bog and improved agricultural grassland; flying	PT
BZ076	01/07/2020	16:30	Buzzard	1	raised bog and cutover bog; flying	PT
BZ077	01/07/2020	16:31	Buzzard	1	cutover bog; flying	PT
BZ078	01/07/2020	16:38	Buzzard	1	cutover bog; flew off telegraph pole as I approached	PT
BZ079	02/07/2020	13:16	Buzzard	1	cutover bog; low flight, brief view	PT
BZ080	02/07/2020	13:53	Buzzard	1	cutover bog, scrub and bog woodland; hunting/hovering, c.80 metres up	PT
BZ081	11/07/2020	06:49	Buzzard	1	cutover bog; perched on pole	PT
BZ082	11/07/2020	12:24	Buzzard	1	cutover bog; hunting	PT
BZ083	15/07/2020	12:33	Buzzard	1	bog woodland; circling	PT
BZ084	15/07/2020	15:04	Buzzard	1	lakes and ponds; hunting	PT
BZ085	01/04/2021	09:18	Buzzard	1	cutover bog; soaring (flyover; non-breeding)	DW
BZ086	01/04/2021	12:33	Buzzard	1	conifer plantation; soaring over forestry (suitable nesting habitat; possible breeder)	DW
BZ087	05/04/2021	11:20	Buzzard	3	conifer plantation, mixed broadleaved woodland and improved agricultural grassland; circling over forestry (suitable nesting habitat; possible breeder)	DW
BZ088	05/04/2021	11:54	Buzzard	1	improved agricultural grassland and cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ089	05/04/2021	13:40	Buzzard	2	mixed broadleaved woodland, conifer plantation and cutover bog; emerging from forestry and soaring (pair; probable breeding)	DW

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ090	05/04/2021	14:07	Buzzard	2	mixed broadleaved woodland and cutover bog; soaring together then one bird dropping into trees (pair; probable breeding)	DW
BZ091	07/04/2021	11:49	Buzzard	1	hedgerows; perching (suitable nesting habitat; possible breeder)	DW
BZ092	07/04/2021	12:12	Buzzard	1	cutover bog and mixed broadleaved woodland; soaring, being mobbed by corvid (suitable nesting habitat; possible breeder)	DW
BZ093	07/04/2021	12:35	Buzzard	1	cutover bog and mixed broadleaved woodland; soaring and dropping into trees, being mobbed by JD (suitable nesting habitat; possible breeder)	DW
BZ094	07/04/2021	14:25	Buzzard	1	cutover bog and scrub; soaring (suitable nesting habitat; possible breeder)	DW
BZ095	08/04/2021	10:06	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
BZ096	08/04/2021	11:17	Buzzard	1	improved agricultural grassland and cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ097	08/04/2021	12:08	Buzzard	2	cutover bog and improved agricultural grassland; travelling and soaring (pair; probable breeding)	DW
BZ098	08/04/2021	14:38	Buzzard	2	improved agricultural grassland; soaring (pair; probable breeding)	DW
BZ099	13/04/2021	10:16	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
BZ100	13/04/2021	10:53	Buzzard	1	cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ101	13/04/2021	11:10	Buzzard	1	conifer plantation; diving into trees, diving from height into trees then calling continuously (probable nest site; probable breeding)	DW
BZ102	13/04/2021	11:12	Buzzard	2	mixed broadleaved woodland and improved agricultural grassland; emerging from trees then soaring, joined briefly by third BZ (pair; probable breeding)	DW
BZ103	13/04/2021	11:22	Buzzard	2	improved agricultural grassland; soaring (pair; probable breeding)	DW
BZ104	13/04/2021	12:32	Buzzard	1	conifer plantation, improved agricultural grassland and cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ105	13/04/2021	13:24	Buzzard	1	cutover bog; soaring (suitable nesting habitat; possible breeder)	DW

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ106	14/04/2021	11:01	Buzzard	3	improved agricultural grassland and cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ107	14/04/2021	12:40	Buzzard	1	cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ108	16/04/2021	11:04	Buzzard	1	mixed broadleaved woodland and improved agricultural grassland; soaring, potentially emerging from trees (suitable nesting habitat; possible breeder)	DW
BZ109	16/04/2021	11:32	Buzzard	1	mixed broadleaved woodland and cutover bog; soaring, looked to maybe emerge from trees (suitable nesting habitat; possible breeder)	DW
BZ110	05/05/2021	12:11	Buzzard	2	improved agricultural grassland; soaring (pair; probable breeding)	DW
BZ111	05/05/2021	15:04	Buzzard	1	raised bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ112	06/05/2021	11:49	Buzzard	1	raised bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ113	06/05/2021	15:26	Buzzard	2	raised bog; soaring (pair; probable breeding)	DW
BZ114	07/05/2021	11:45	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
BZ115	07/05/2021	12:04	Buzzard	1	conifer plantation; travelling, being mobbed, looked like by another BZ (suitable nesting habitat; possible breeder)	DW
BZ116	07/05/2021	12:51	Buzzard	1	cutover bog and conifer plantation; gliding and calling (suitable nesting habitat; possible breeder)	DW
BZ117	07/05/2021	13:40	Buzzard	1	cutover bog and conifer plantation; calling and flying to perch (suitable nesting habitat; possible breeder)	DW
BZ118	07/05/2021	14:21	Buzzard	2	mixed broadleaved woodland and cutover bog; soaring and calling, potential courtship display? (Pair; probable breeding)	DW
BZ122	12/05/2021	11:07	Buzzard	1	bogs; soaring (suitable nesting habitat; possible breeder)	DW
BZ119	12/05/2021	12:17	Buzzard	1	mixed broadleaved woodland; soaring (suitable nesting habitat; possible breeder)	DW
BZ120	12/05/2021	13:09	Buzzard	2	mixed broadleaved woodland; soaring (pair; probable breeding)	DW
BZ121	12/05/2021	13:33	Buzzard	1	mixed broadleaved woodland; soaring (suitable nesting habitat; possible breeder)	DW

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ123	13/05/2021	11:57	Buzzard	1	cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ124	13/05/2021	13:32	Buzzard	1	bogs; soaring (suitable nesting habitat; possible breeder)	DW
BZ125	13/05/2021	16:26	Buzzard	9	improved agricultural grassland, cutover bog and conifer plantation; soaring, group of 9 BZ loosely together soaring (suitable nesting habitat; possible breeder)	DW
BZ126	14/05/2021	11:02	Buzzard	1	mixed broadleaved woodland; soaring (suitable nesting habitat; possible breeder)	DW
BZ127	14/05/2021	11:12	Buzzard	3	cutover bog; soaring together (suitable nesting habitat; possible breeder)	DW
BZ128	14/05/2021	11:27	Buzzard	3	cutover bog; soaring together (suitable nesting habitat; possible breeder)	DW
BZ129	14/05/2021	11:50	Buzzard	7	mixed broadleaved woodland and improved agricultural grassland; soaring loosely together and calling (pair; probable breeding)	DW
BZ130	14/05/2021	12:44	Buzzard	2	mixed broadleaved woodland; soaring together (pair; probable breeding)	DW
BZ131	18/05/2021	09:40	Buzzard	1	cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ132	18/05/2021	10:34	Buzzard	1	cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ133	18/05/2021	11:12	Buzzard	1	cutover bog; soaring, in vicinity of conifers (suitable nesting habitat; possible breeder)	DW
BZ134	18/05/2021	12:27	Buzzard	2	cutover bog and conifer plantation; emerging from direction of trees then soaring together (pair; probable breeding)	DW
BZ135	18/05/2021	14:51	Buzzard	1	improved agricultural grassland and highly modified/non-native woodland; soaring then potentially dropping down into trees (suitable nesting habitat; possible breeder)	DW
BZ136	01/06/2021	10:15	Buzzard	1	improved agricultural grassland and conifer plantation; soaring (suitable nesting habitat; possible breeder)	DW
BZ137	01/06/2021	13:03	Buzzard	1	improved agricultural grassland and cutover bog; soaring, low to ground at initial sighting then gaining height soaring (suitable nesting habitat; possible breeder)	DW

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ138	01/06/2021	14:47	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
BZ139	01/06/2021	15:05	Buzzard	1	improved agricultural grassland; soaring, possibly entering large tree at field boundary (suitable nesting habitat; possible breeder)	DW
BZ140	01/06/2021	15:09	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
BZ142	03/06/2021	11:31	Buzzard	1	improved agricultural grassland; gliding, being mobbed by corvid (suitable nesting habitat; possible breeder)	DW
BZ141	03/06/2021	11:51	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
BZ143	04/06/2021	11:11	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
BZ144	04/06/2021	13:22	Buzzard	1	cutover bog; gliding, possible landing in trees (suitable nesting habitat; possible breeder)	DW
BZ145	04/06/2021	13:57	Buzzard	1	cutover bog, improved agricultural grassland and mixed broadleaved woodland; soaring and gliding, looked to potentially drop into trees. 1of2 BZ in this area (pair; probable breeding)	DW
BZ146	04/06/2021	13:57	Buzzard	1	improved agricultural grassland and mixed broadleaved woodland; soaring, 2of2 BZ in this area (suitable nesting habitat; possible breeder)	DW
BZ147	04/06/2021	14:08	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
BZ148	04/06/2021	16:02	Buzzard	1	cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ149	09/06/2021	12:28	Buzzard	1	improved agricultural grassland; travelling and soaring (suitable nesting habitat; possible breeder)	DW
BZ150	10/06/2021	18:14	Buzzard	1	bogs; soaring (suitable nesting habitat; possible breeder)	DW
BZ151	10/06/2021	18:29	Buzzard	1	bogs; soaring (suitable nesting habitat; possible breeder)	DW
BZ152	11/06/2021	13:19	Buzzard	1	upland blanket bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ153	11/06/2021	13:19	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ154	11/06/2021	15:02	Buzzard	1	improved agricultural grassland and mixed broadleaved woodland; repeated calling heard, then soaring (suitable nesting habitat; possible breeder)	DW
BZ155	13/06/2021	10:32	Buzzard	1	upland blanket bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ156	02/07/2021	13:36	Buzzard	1	improved agricultural grassland and cutover bog; soaring (suitable nesting habitat; possible breeder)	DW
BZ157	06/07/2021	11:06	Buzzard	1	cutover bog; perched on post, then took off W (suitable nesting habitat; possible breeder)	DW
BZ158	06/07/2021	14:30	Buzzard	1	cutover bog and mixed broadleaved woodland; travelling and calling, entering into trees around lake (suitable nesting habitat; possible breeder)	DW
BZ159	06/07/2021	14:32	Buzzard	1	cutover bog; gliding and travelling, likely same bird as seen just before (suitable nesting habitat; possible breeder)	DW
BZ160	07/07/2021	12:26	Buzzard	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
BZ161	07/07/2021	14:02	Buzzard	2	upland blanket bog; soaring together (pair; probable breeding)	DW
BZ162	07/07/2021	15:56	Buzzard	1	cutover bog and mixed broadleaved woodland; calling and seeming to drop down into trees (suitable nesting habitat; possible breeder)	DW
BZ163	09/07/2021	12:02	Buzzard	1	cutover bog and treelines; gliding low (suitable nesting habitat; possible breeder)	DW
BZ164	09/07/2021	13:58	Buzzard	1	mixed broadleaved woodland; travelling (suitable nesting habitat; possible breeder)	DW
BZ165	14/07/2021	19:30	Buzzard	1	improved agricultural grassland and hedgerows; travelling low and perching in tree (suitable nesting habitat; possible breeder)	DW
BZ166	16/07/2021	11:12	Buzzard	2	cutover bog; soaring together and calling (suitable nesting habitat; possible breeder)	DW
BZ167	28/04/2022	13:30	Buzzard	1	cutover bog; soaring/calling (flyover; non-breeding)	NM
BZ168	07/05/2022	12:54	Buzzard	1	conifer plantation; soaring (flyover; non-breeding)	NM

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ169	07/05/2022	14:11	Buzzard	1	conifer plantation and cutover bog; travelling/diving to perch (probable nest site; probable breeding)	NM
BZ170	07/05/2022	14:16	Buzzard	2	conifer plantation and cutover bog; travelling (pair; probable breeding)	NM
BZ171	07/05/2022	15:19	Buzzard	1	highly modified/non-native woodland and scrub; travelling/calling (flyover; non-breeding)	NM
BZ172	19/05/2022	16:34	Buzzard	2	cutover bog; calling/travelling, two adults calling and flying together (pair; probable breeding)	NM
BZ173	25/05/2022	08:15	Buzzard	1	cutover bog and conifer plantation; travelling/hunting (suitable nesting habitat; possible breeder)	NM
BZ174	26/05/2022	08:38	Buzzard	1	conifer plantation and cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
BZ175	30/05/2022	15:58	Buzzard	1	cutover bog; at rest/travelling (suitable nesting habitat; possible breeder)	NM
BZ176	09/06/2022	14:44	Buzzard	1	cutover bog and conifer plantation; travelling (suitable nesting habitat; possible breeder)	NM
BZ177	09/06/2022	14:56	Buzzard	1	conifer plantation and improved agricultural grassland; travelling/calling (suitable nesting habitat; possible breeder)	NM
BZ178	09/06/2022	16:29	Buzzard	1	conifer plantation and scrub; travelling/mobbed, mobbed by hooded crow (suitable nesting habitat; possible breeder)	NM
BZ179	20/06/2022	15:34	Buzzard	1	conifer plantation and improved agricultural grassland; travelling (suitable nesting habitat; possible breeder)	NM
BZ180	20/06/2022	16:58	Buzzard	1	conifer plantation and cutover bog; travelling, juvenile bird (fledged young; confirmed breeding)	NM
BZ181	23/06/2022	14:46	Buzzard	1	conifer plantation and bogs; travelling/calling (suitable nesting habitat; possible breeder)	NM
BZ182	23/06/2022	15:32	Buzzard	2	bogs and conifer plantation; soaring/calling (pair; probable breeding)	NM
BZ183	30/06/2022	09:32	Buzzard	1	conifer plantation and improved agricultural grassland; travelling (suitable nesting habitat; possible breeder)	NM

Breeding Walkover Survey						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ184	30/06/2022	12:55	Buzzard	1	improved agricultural grassland; hunting, bird observed hovering then stopped to catch prey in field (suitable nesting habitat; possible breeder)	NM
BZ185	30/06/2022	13:01	Buzzard	1	cutover bog; hunting (suitable nesting habitat; possible breeder)	NM
BZ186	27/07/2022	13:44	Buzzard	1	conifer plantation and bogs; travelling (suitable nesting habitat; possible breeder)	NM
BZ187	29/07/2022	16:29	Buzzard	1	cutover bog; circling/soaring (suitable nesting habitat; possible breeder)	NM
BZ188	29/07/2022	16:46	Buzzard	1	cutover bog and conifer plantation; soaring/calling (suitable nesting habitat; possible breeder)	NM
BZ189	05/08/2022	15:25	Buzzard	1	conifer plantation and improved agricultural grassland; begging call, juvenile heard begging (nest with young; confirmed breeding)	NM
BZ190	05/08/2022	16:41	Buzzard	2	cutover bog, scrub and improved agricultural grassland; soaring/calling (suitable nesting habitat; possible breeder)	NM

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ001	RVP1	20/04/2020	09:40	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ002	RVP2	20/04/2020	10:05	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ003	RVP3	20/04/2020	10:32	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ004	RVP5	20/04/2020	12:40	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ005	RVP6	20/04/2020	14:00	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ006	RVP7	20/04/2020	14:40	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ007	RVP8	20/04/2020	15:15	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ008	RVP1	27/04/2020	09:45	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ009	RVP2	27/04/2020	10:10	Buzzard	1	improved agricultural grassland, perched and flying, adult		ED
BZ012	RVP5	27/04/2020	10:50	Buzzard	1	improved agricultural grassland, flying, adult		ED
BZ010	RVP4	27/04/2020	11:20	Buzzard	1	improved agricultural grassland and conifer plantation, flying, adult		ED
BZ011	RVP4	27/04/2020	11:35	Buzzard	1	improved agricultural grassland, flying, adult		ED
BZ013	RVP6	27/04/2020	12:52	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ014	RVP7	27/04/2020	13:45	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ015	RVP8	27/04/2020	14:50	Buzzard	2	improved agricultural grassland, soaring, adult		ED

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ016	RVP1	28/04/2020	10:15	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ017	RVP2	28/04/2020	11:05	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ018	RVP3	28/04/2020	11:25	Buzzard	2	improved agricultural grassland, soaring, adult		ED
BZ019	RVP4	28/04/2020	12:20	Buzzard	2	improved agricultural grassland, soaring, adult		ED
BZ020	RVP5	28/04/2020	12:32	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ021	RVP7	28/04/2020	14:20	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ022	RVP8	28/04/2020	15:05	Buzzard	1	improved agricultural grassland and conifer plantation, perched, adult		ED
BZ023	RVP9	28/04/2020	15:10	Buzzard	1	improved agricultural grassland and conifer plantation, perched, adult		ED
BZ024	RVP10	28/04/2020	15:20	Buzzard	1	improved agricultural grassland and conifer plantation, perched, adult		ED
BZ025	RVP1	29/04/2020	10:20	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ026	RVP2	29/04/2020	11:50	Buzzard	1	improved agricultural grassland, roosting/perched, adult		ED
BZ027	RVP3	29/04/2020	13:35	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ028	RVP4	29/04/2020	14:10	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ029	RVP5	29/04/2020	14:20	Buzzard	1	improved agricultural grassland, flying, adult		ED

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ030	RVP1	09/05/2020	11:10	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ031	RVP2	09/05/2020	12:20	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ032	RVP3	09/05/2020	12:50	Buzzard	1	improved agricultural grassland, flying, adult		ED
BZ033	RVP4	09/05/2020	13:45	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ034	RVP5	09/05/2020	14:40	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ035	RVP6	09/05/2020	14:50	Buzzard	1	improved agricultural grassland, flying, adult		ED
BZ036	RVP7	09/05/2020	15:15	Buzzard	1	improved agricultural grassland, flying, adult		ED
BZ037	RVP8	09/05/2020	15:50	Buzzard	1	improved agricultural grassland, flying, adult		ED
BZ038	RVP1	19/05/2020	11:55	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ039	RVP3	19/05/2020	13:10	Buzzard	1	improved agricultural grassland, perched and flying, adult		ED
BZ040	RVP4	19/05/2020	13:45	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ041	RVP5	19/05/2020	14:20	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ042	RVP6	19/05/2020	14:48	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ043	RVP9	19/05/2020	16:25	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ044	RVP1	20/05/2020	12:05	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ045	RVP2	20/05/2020	12:50	Buzzard	1	improved agricultural grassland, soaring, adult		ED

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ046	RVP3	20/05/2020	13:20	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ047	RVP4	20/05/2020	14:05	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ048	RVP5	20/05/2020	14:25	Buzzard	1	improved agricultural grassland, flying, adult		ED
BZ049	RVP6	20/05/2020	15:35	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ050	RVP8	20/05/2020	16:25	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ051	RVP1	21/05/2020	13:40	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ052	RVP2	21/05/2020	14:05	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ053	RVP3	21/05/2020	14:30	Buzzard	1	improved agricultural grassland, perched and flying, adult		ED
BZ054	RVP4	21/05/2020	15:10	Buzzard	1	improved agricultural grassland, perched and flying, adult		ED
BZ055	RVP6	21/05/2020	17:25	Buzzard	1	improved agricultural grassland, soaring, adult		ED
BZ056	T1	11/06/2020	10:25	Buzzard	1	conifer plantation and treelines, carrying prey (small rodent) into nest site, nest in beech treeline along entrance to farm		PM
BZ057	T1	11/06/2020	10:25	Buzzard	1	treelines and conifer plantation, left nest site and began hunting over young forestry		PM
BZ058	T1	11/06/2020	11:12	Buzzard	1	arable crops, improved agricultural grassland and treelines, travelling; flew into stand of large trees, possible		PM

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
						nest site; too far to observe if BZ was carrying food		
BZ059	T2	11/06/2020	12:21	Buzzard	1	improved agricultural grassland, flushed from tree; then began hunting		PM
BZ060	T2	11/06/2020	12:29	Buzzard	1	improved agricultural grassland and conifer plantation, travelling		PM
BZ061	T3	12/06/2020	10:10	Buzzard	1	mixed broadleaved/conifer woodland, travelling, flying between trees along shelter belt of forestry		PM
BZ062	T4	12/06/2020	13:12	Buzzard	1	conifer plantation, travelling		PM
BZ063	T5	16/06/2020	09:17	Buzzard	1	conifer plantation, flying low over forestry		PM
BZ064	T6	16/06/2020	13:03	Buzzard	1	hedgerows and improved agricultural grassland, flushed from tree, landed in tree at other side of field		PM
BZ065	T6	16/06/2020	14:25	Buzzard	1	mixed broadleaved/conifer woodland, travelling low through wood, likely nest in this wood due to bird below canopy		PM
BZ066	T7	23/06/2020	10:28	Buzzard	1	mixed broadleaved/conifer woodland, flying low over woods		PM
BZ067	T6	02/07/2020	13:05	Buzzard	2	conifer plantation, pair circling over forestry, circling over area of possible nest located in June		PM
BZ068	T6	02/07/2020	14:01	Buzzard	1	improved agricultural grassland, calling/travelling		PM

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ069	T1	14/07/2020	09:57	Buzzard	1	treelines and arable crops, circling nest site before flying off across field		PM
BZ070	T8	16/07/2020	13:54	Buzzard	1	mixed broadleaved/conifer woodland, travelling		PM
BZ071	T8	16/07/2020	15:10	Buzzard	1	improved agricultural grassland, hunting		PM
BZ072	T3	21/07/2020	09:29	Buzzard	1	improved agricultural grassland, travelling		PM
BZ073	T4	21/07/2020	10:41	Buzzard	3	mixed broadleaved/conifer woodland, fledgelings begging, nest site: 2 recently fledged chicks begging near nest; calling throughout survey and visited by adult occasionally		PM
BZ074	BRVP1	17/04/2021	17:43	Buzzard	1	hedgerows and improved agricultural grassland, foraging - moving from perch to perch along hedgerows	suitable nesting habitat; possible breeder	KB
BZ075	BRVP1	17/04/2021	17:50	Buzzard	1	hedgerows and treelines, foraging - moving from perch to perch along hedgerow	suitable nesting habitat; possible breeder	KB
BZ076	BRVP1	17/04/2021	18:45	Buzzard	1	treelines and hedgerows, foraging - moving from perch to perch along hedgerow	suitable nesting habitat; possible breeder	KB
BZ077	Transect 3	23/04/2021	15:40	Buzzard	4	cutover bog, immature woodland and improved agricultural grassland, soaring	suitable nesting habitat; possible breeder	KB
BZ078	Transect 3	23/04/2021	16:01	Buzzard	1	cutover bog and immature woodland, soaring, foraging	suitable nesting habitat; possible breeder	KB
BZ079	Transect 3	23/04/2021	16:07	Buzzard	1	cutover bog, soaring, foraging	suitable nesting habitat; possible breeder	KB

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ080	Transect 2	23/04/2021	17:42	Buzzard	1	mixed broadleaved woodland, travelling with prey into woodland	adult carrying food/faecal sac; confirmed breeding	KB
BZ081	Transect 4	25/04/2021	15:10	Buzzard	1	hedgerows, arable crops and improved agricultural grassland, perched on tree	suitable nesting habitat; possible breeder	KB
BZ082	Transect 4	25/04/2021	15:26	Buzzard	1	improved agricultural grassland and hedgerows, soaring	suitable nesting habitat; possible breeder	KB
BZ083	Transect 7	25/04/2021	16:46	Buzzard	1	mixed conifer woodland and cutover bog, display flight	courtship and display; probable breeding	KB
BZ084	Transect 1	26/04/2021	13:42	Buzzard	1	cutover bog and scrub, soaring	suitable nesting habitat; possible breeder	KB
BZ085	Transect 1	26/04/2021	14:40	Buzzard	1	treelines and arable crops, calling heard, near last year's nest in beech avenue	suitable nesting habitat; possible breeder	KB
BZ086	BRVP 7	26/04/2021	16:18	Buzzard	1	mixed broadleaved woodland and improved agricultural grassland, soaring	suitable nesting habitat; possible breeder	KB
BZ087	Transect 6	12/05/2021	14:10	Buzzard	1	mixed broadleaved/conifer woodland, mixed conifer woodland and cutover bog, agitated behaviour circling surveyor - began soaring and flew from view	agitated behaviour; probable breeding	KB
BZ088	Transect 4	12/05/2021	17:08	Buzzard	3	improved agricultural grassland, cutover bog and scrub/transitional woodland, soaring and calling	suitable nesting habitat; possible breeder	KB
BZ089	Transect 3	13/05/2021	12:34	Buzzard	2	improved agricultural grassland and mixed broadleaved woodland, soaring	suitable nesting habitat; possible breeder	KB

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ090	Transect along tracks to VP14	19/05/2021	11:06	Buzzard	1	improved agricultural grassland and conifer plantation, soaring	suitable nesting habitat; possible breeder	KB
BZ091	Transect along tracks to VP14	19/05/2021	13:02	Buzzard	1	immature woodland and improved agricultural grassland, flying low into scrub	suitable nesting habitat; possible breeder	KB
BZ092	Transect 7, 8 + 1; BRVP7	25/05/2021	12:51	Buzzard	2	mixed broadleaved/conifer woodland and cutover bog, agitated erratic flight towards surveyor and display flight while 2nd bird calling from trees	agitated behaviour; probable breeding	KB
BZ09	Transect 7, 8 + 1; BRVP7	25/05/2021	13:38	Buzzard	1	improved agricultural grassland, foraging	suitable nesting habitat; possible breeder	KB
BZ094	Transect 7, 8 + 1; BRVP7	25/05/2021	16:32	Buzzard	1	mixed broadleaved woodland, travelling with prey into woodland	adult carrying food/faecal sac; confirmed breeding	KB
BZ095	BRVP1	06/07/2021	16:55	Buzzard	1	improved agricultural grassland and hedgerows, soaring and calling	suitable nesting habitat; possible breeder	KB
BZ096	Transect along tracks to VP14	07/07/2021	12:00	Buzzard	1	improved agricultural grassland and conifer plantation, soaring - descended into forestry	suitable nesting habitat; possible breeder	KB
BZ097	Transect along tracks to VP14	07/07/2021	12:20	Buzzard	1	conifer plantation and cutover bog, foraging	suitable nesting habitat; possible breeder	KB
BZ098	Transect along tracks to VP14	07/07/2021	14:36	Buzzard	1	arable crops, improved agricultural grassland and conifer plantation, soaring	suitable nesting habitat; possible breeder	KB
BZ099	Transect 4	07/07/2021	15:32	Buzzard	1	conifer plantation, calling	suitable nesting habitat; possible breeder	KB
BZ100	Transect 4	07/07/2021	15:49	Buzzard	1	improved agricultural grassland, soaring	suitable nesting habitat; possible breeder	KB

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ101	Transect 8 + BRVP7	08/07/2021	12:03	Buzzard	1	mixed broadleaved woodland and improved agricultural grassland, took up from perch - foraging	suitable nesting habitat; possible breeder	KB
BZ102	Transect 8 + BRVP7	08/07/2021	12:19	Buzzard	1	mixed broadleaved woodland, foraging - flushed by approaching surveyor	suitable nesting habitat; possible breeder	KB
BZ103	Transect 8 + BRVP7	08/07/2021	12:28	Buzzard	1	mixed broadleaved woodland, foraging - flushed by approaching surveyor	suitable nesting habitat; possible breeder	KB
BZ104	Transect 8 + BRVP7	08/07/2021	13:08	Buzzard	1	mixed broadleaved woodland and improved agricultural grassland, soaring	suitable nesting habitat; possible breeder	KB
BZ105	Transect 8 + BRVP7	08/07/2021	13:14	Buzzard	1	improved agricultural grassland and hedgerows, soaring	suitable nesting habitat; possible breeder	KB
BZ106	Transect 1	08/07/2021	14:39	Buzzard		treelines, chick begging calls heard from nest	nest with young; confirmed breeding	KB
BZ107	BRVP4	13/07/2021	12:20	Buzzard	1	improved agricultural grassland and hedgerows, soaring	suitable nesting habitat; possible breeder	KB
BZ108	BRVP8	27/07/2021	09:10	Buzzard	2	improved agricultural grassland and mixed broadleaved/conifer woodland, adult on pole flew SW calling, while juvenile BZ called from treeline continuously through survey	fledged young; confirmed breeding	KS
BZ109	BRVP8	27/07/2021	10:33	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, juv. flew in loop low over trees, calling	fledged young; confirmed breeding	KS
BZ110	BRVP8	27/07/2021	11:19	Buzzard	1	improved agricultural grassland, adult traveling over fields, calling	suitable nesting habitat; possible breeder	KS

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ113	BRVP7	28/07/2021	09:45	Buzzard	1	treelines and improved agricultural grassland, adult calling from treeline	suitable nesting habitat; possible breeder	KS
BZ112	BRVP5	28/07/2021	12:37	Buzzard	1	treelines and improved agricultural grassland, flew and perched in treeline for 5mins, mobbed by crows then flew south, adult	suitable nesting habitat; possible breeder	KS
BZ111	BRVP3	28/07/2021	15:20	Buzzard	1	mixed broadleaved/conifer woodland, perched in tree for roughly 20mins, dropped out of sight, adult	suitable nesting habitat; possible breeder	KS
BZ117	Transect 1	29/07/2021	09:30	Buzzard	1	treelines, juvenile calling	fledged young; confirmed breeding	KS
BZ116	Transect 1	29/07/2021	10:01	Buzzard	1	improved agricultural grassland and buildings and artificial surfaces, perched on pole, flushed south, adult bird	suitable nesting habitat; possible breeder	KS
BZ115	Transect 7	29/07/2021	10:39	Buzzard	1	improved agricultural grassland and treelines, flushed from field into treeline	suitable nesting habitat; possible breeder	KS
BZ114	BRVP1	29/07/2021	13:39	Buzzard	1	conifer plantation, travelled over forestry from south, dropped below into trees	suitable nesting habitat; possible breeder	KS
BZ118	T6	05/04/2022	11:28	Buzzard	2	mixed broadleaved/conifer woodland and improved agricultural grassland, soaring	pair; probable breeding	KS
BZ119	T5	05/04/2022	12:45	Buzzard	2	conifer plantation, soaring together/dancing	courtship and display; probable breeding	KS
BZ120	RVP6	05/04/2022	13:30	Buzzard	1	mixed broadleaved/conifer woodland, perched, flew low w	suitable nesting habitat; possible breeder	KS

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ121	RVP8	05/04/2022	15:09	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, perched, flew to perch, c. 20mins then flushed	suitable nesting habitat; possible breeder	KS
BZ122	RVP3	07/04/2022	10:17	Buzzard	1	improved agricultural grassland and treelines, gliding	suitable nesting habitat; possible breeder	KS
BZ123	RVP3	07/04/2022	11:12	Buzzard	1	improved agricultural grassland and conifer plantation, soaring	suitable nesting habitat; possible breeder	KS
BZ124	T3	07/04/2022	12:14	Buzzard	2	conifer plantation, agitated calls	pair; probable breeding	KS
BZ125	RVP5	07/04/2022	14:24	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer woodland, flushed	suitable nesting habitat; possible breeder	KS
BZ126	RVP4	13/04/2022	10:03	Buzzard	1	improved agricultural grassland and treelines, travelling	suitable nesting habitat; possible breeder	KS
BZ127	RVP4	13/04/2022	10:35	Buzzard	2	improved agricultural grassland and conifer plantation, soaring	pair; probable breeding	KS
BZ128	T7	13/04/2022	11:16	Buzzard	1	mixed broadleaved/conifer woodland and cutover bog, travelling, dropped into trees	suitable nesting habitat; possible breeder	KS
BZ129	T7	13/04/2022	11:27	Buzzard	1	mixed broadleaved/conifer woodland, travelling, dropped	suitable nesting habitat; possible breeder	KS
BZ130	T7	13/04/2022	11:32	Buzzard	7	mixed broadleaved/conifer woodland, soaring, some calling	courtship and display; probable breeding	KS
BZ131	T8	13/04/2022	12:46	Buzzard	1	hedgerows, landed, flew into tree	suitable nesting habitat; possible breeder	KS
BZ132	RVP2	13/04/2022	14:05	Buzzard	2	improved agricultural grassland and mixed broadleaved/conifer woodland, display	courtship and display; probable breeding	KS
BZ133	RVP1	14/04/2022	11:13	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer woodland, travelling	suitable nesting habitat; possible breeder	KS

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ134	RVP1	14/04/2022	11:43	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer woodland, soaring	suitable nesting habitat; possible breeder	KS
BZ135	RVP1	14/04/2022	12:08	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer woodland, soaring	suitable nesting habitat; possible breeder	KS
BZ136	T1	14/04/2022	12:41	Buzzard	1	mixed broadleaved/conifer woodland and cutover bog, flushed	suitable nesting habitat; possible breeder	KS
BZ137	RVP3	10/05/2022	16:30	Buzzard	1	semi-natural grassland, appeared to land, went downside road to look		EF
BZ138	RVP3	10/05/2022	16:32	Buzzard	1	semi-natural grassland, perched on isolated conifer tree. flew after about 1 minute., presumed same bird as 01		EF
BZ139	RVP1	24/05/2022	11:15	Buzzard	1	semi-natural grassland, soaring		EF
BZ140	RVP7	30/05/2022	13:35	Buzzard	1	improved grassland, hedgerows and semi-natural grassland, flying. seen briefly		EF
BZ141	RVP8	07/06/2022	15:07	Buzzard	1	improved agricultural grassland and treelines, carrying prey	adult carrying food/faecal sac; confirmed breeding	KS
BZ142	RVP8	07/06/2022	15:32	Buzzard	1	treelines and improved agricultural grassland, circling, came from same area	courtship and display; probable breeding	KS
BZ143	RVP6	07/06/2022	15:55	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, travelling	suitable nesting habitat; possible breeder	KS
BZ144	RVP5	07/06/2022	17:44	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer	suitable nesting habitat; possible breeder	KS

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
						woodland, flushed, flew from ground into trees		
BZ145	RVP5	08/06/2022	17:49	Buzzard	1	mixed broadleaved/conifer woodland, display	courtship and display; probable breeding	KS
BZ146	RVP7	08/06/2022	19:16	Buzzard	1	improved agricultural grassland and treelines, travelling	suitable nesting habitat; possible breeder	KS
BZ147	RVP1	09/06/2022	16:57	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, soaring	suitable nesting habitat; possible breeder	KS
BZ148	RVP1	09/06/2022	17:49	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, soaring	suitable nesting habitat; possible breeder	KS
BZ149	RVP8	09/06/2022	19:23	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, flushed	suitable nesting habitat; possible breeder	KS
BZ150	RVP4	15/06/2022	17:46	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer woodland, travelling	suitable nesting habitat; possible breeder	KS
BZ151	RVP5	20/06/2022	17:53	Buzzard	1	mixed broadleaved/conifer woodland, mobbed, by crows	suitable nesting habitat; possible breeder	KS
BZ152	RVP5	08/07/2022	12:30	Buzzard	1	mixed broadleaved/conifer woodland, calling	permanent territory; probable breeding	KS
BZ153	RVP5	08/07/2022	16:57	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, display	courtship and display; probable breeding	KS
BZ154	RVP8	12/07/2022	16:40	Buzzard	1	improved agricultural grassland and treelines, perched, flew, calling	permanent territory; probable breeding	KS
BZ155	RVP8	12/07/2022	16:56	Buzzard	1	treelines and improved agricultural grassland, begging	nest with young; confirmed breeding	KS
BZ156	RVP4	13/07/2022	10:10	Buzzard	1	mixed broadleaved/conifer woodland, juvenile call	nest with young; confirmed breeding	KS

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
BZ157	RVP1	25/07/2022	15:58	Buzzard	2	treelines and improved agricultural grassland, nest - calling, same location as last year	nest with young; confirmed breeding	KS
BZ158	RVP5	25/07/2022	18:14	Buzzard	1	mixed broadleaved/conifer woodland, soaring	permanent territory; probable breeding	KS

Winter Walkover Surveys							
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor	
BZ006	23/10/2020	10:17	Buzzard	1	conifer plantation; sound of bird,	JC	
BZ007	23/10/2020	11:36	Buzzard	1	semi-natural woodland; flying,	JC	
BZ008	13/01/2021	11:15	Buzzard	1	cutover bog; travelling,	DW	
BZ009	16/02/2021	10:48	Buzzard	1	raised bog, bog woodland and grassland and marsh; circling/ gliding,	PT	
BZ010	26/02/2021	12:01	Buzzard	5	raised bog; circling,	PT	
BZ011	26/02/2021	12:25	Buzzard	1	bog woodland; circling,	PT	
BZ012	29/03/2021	11:01	Buzzard	1	bogs and highly modified/non-native woodland; soaring,	AR	
BZ013	29/03/2021	12:37	Buzzard	1	bogs and highly modified/non-native woodland; travelling,	AR	
BZ014	29/03/2021	15:52	Buzzard	3	highly modified/non-native woodland; soaring, 3 birds over wooded area height 20-40m	AR	
BZ015	29/03/2021	16:22	Buzzard	2	bogs and highly modified/non-native woodland; hunting, six birds in air at same time	AR	
BZ016	29/03/2021	16:25	Buzzard	4	bogs and highly modified/non-native woodland; hunting, six birds in air at same time	AR	
BZ017	30/03/2021	11:23	Buzzard	2	bogs and highly modified/non-native woodland; soaring,	AR	
BZ018	30/03/2021	11:45	Buzzard	1	highly modified/non-native woodland; soaring,	AR	
BZ019	30/03/2021	11:56	Buzzard	1	highly modified/non-native woodland; soaring,	AR	

Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ020	30/03/2021	13:53	Buzzard	1	bogs and highly modified/non-native woodland; hunting,	AR
BZ021	30/03/2021	14:16	Buzzard	3	bogs and highly modified/non-native woodland; travelling,	AR
BZ022	30/03/2021	14:52	Buzzard	4	bogs and highly modified/non-native woodland; travelling,	AR
BZ023	30/03/2021	15:30	Buzzard	1	bogs; hunting,	AR
BZ024	30/03/2021	16:51	Buzzard	1	bogs; soaring,	AR
BZ025	26/11/2021	10:11	Buzzard	1	cutover bog and conifer plantation; flushed from tree during walkover,	IH
BZ026	26/11/2021	12:14	Buzzard	2	cutover bog; soaring, soaring high together	IH
BZ027	17/12/2021	09:20	Buzzard	1	bogs and conifer plantation; travelling,	JM
BZ028	18/03/2022	15:04	Buzzard	1	conifer plantation; soaring,	NM
BZ029	18/03/2022	15:16	Buzzard	1	cutover bog; soaring,	NM
BZ030	18/03/2022	17:19	Buzzard	1	conifer plantation and cutover bog; flying,	NM
BZ031	19/03/2022	14:31	Buzzard	1	cutover bog and conifer plantation; flying,	NM
BZ032	19/03/2022	14:46	Buzzard	2	cutover bog and conifer plantation; soaring,	NM
BZ033	19/03/2022	14:48	Buzzard	1	conifer plantation and cutover bog; soaring,	NM
BZ034	19/03/2022	15:04	Buzzard	3	conifer plantation and cutover bog; circling/soaring,	NM
BZ035	19/03/2022	15:20	Buzzard	1	cutover bog and conifer plantation; hunting/calling,	NM
BZ036	19/03/2022	16:46	Buzzard	1	cutover bog; hunting,	NM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
BZ001	CMVP2	01/12/2020	14:34	Buzzard	1	20	improved agricultural grassland and hedgerows, soaring	KB
BZ002	CMVP2	15/12/2020	07:59	Buzzard	1	15	improved agricultural grassland and hedgerows; foraging	KB

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
BZ003	CMVP2	15/12/2020	08:05	Buzzard	1	10	improved agricultural grassland and hedgerows; foraging	KB
BZ004	CMVP2	15/12/2020	10:23	Buzzard	1	30	improved agricultural grassland and hedgerows; foraging	KB
BZ005	CMVP1	22/12/2020	09:05	Buzzard	1	50	conifer plantation; soaring and descended into trees	KB
BZ006	CMVP5	05/01/2021	15:30	Buzzard	1	6	hedgerows and improved agricultural grassland; perched on tree. took up and flew off	KB
BZ007	CMVP2	14/01/2021	10:36	Buzzard	1	10	improved agricultural grassland and treelines, foraging. landed to perch in tree	KB
BZ008	CMVP2	14/01/2021	10:36	Buzzard	1	6	improved agricultural grassland and treelines; followed first buzzard and landed to perch in tree	KB
BZ009	CMVP2	14/01/2021	10:37	Buzzard	1	8	improved agricultural grassland and treelines; flew from perch	KB
BZ010	CMVP2	14/01/2021	10:37	Buzzard	1	15	improved agricultural grassland and treelines; flew from perch	KB
BZ011	CMVP3	06/02/2021	10:10	Buzzard	1		improved agricultural grassland; hunting, on ESB pole	DM
BZ012	CMVP4	11/02/2021	17:26	Buzzard	1	60	improved agricultural grassland, travelling	DM
BZ013	CMVP3	24/02/2021	16:30	Buzzard	1	120	improved agricultural grassland, travelling	DM
BZ014	CMVP2	26/02/2021	16:57	Buzzard	2	60	improved agricultural grassland; travelling, landed briefly in tree	DM
BZ015	CMVP2	26/02/2021	17:05	Buzzard	1	35	improved agricultural grassland, travelling	DM
BZ016	CMVP2	26/02/2021	17:35	Buzzard	1	45	improved agricultural grassland and mixed broadleaved/conifer	DM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
							woodland; travelling, disturbed by farmer	
BZ017	CMVP1	09/03/2021	06:59	Buzzard	1	45	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
BZ018	CMVP5	26/03/2021	17:16	Buzzard	1	180	improved agricultural grassland; hunting	DM
BZ019	CMVP3	10/10/2021	16:53	Buzzard	1	5	improved agricultural grassland and buildings and artificial surfaces; flying, perched, perched on the tree near n52 for 20 min	TS
BZ020	CMVP3	10/10/2021	17:19	Buzzard	1	10	improved agricultural grassland and buildings and artificial surfaces; flying, perched, on fence (n52)	TS
BZ021	CMVP4	11/10/2021	08:30	Buzzard	1	10	tilled land and amenity grassland (improved); flying, perched, perched for over an hour	TS
BZ022	CMVP4	22/10/2021	17:48	Buzzard	1	10	amenity grassland (improved), treelines and improved agricultural grassland, flying	TS
BZ23	CMVP4	22/10/2021	17:49	Buzzard	1	20	tilled land, amenity grassland (improved) and buildings and artificial surfaces; flying perched, on tree for 10min., then flew e	TS
BZ024	CMVP4	04/11/2021	07:24	Buzzard	1		amenity grassland (improved); perched on post for ~ 20min than flew NW	TS
BZ025	CMVP4	04/11/2021	08:02	Buzzard	1	15	hedgerows and tilled land; flying, flew to the perch in the hedgerow	TS
BZ026	CMVP2	24/11/2021	16:25	Buzzard	1	25	improved agricultural grassland and buildings and artificial surfaces; flying, perched, mobbed by 4HC,	TS

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
							perched for 5 min than flew away lost SW	
BZ027	CMVP4	25/11/2021	16:16	Buzzard	1	65	improved agricultural grassland and buildings and artificial surfaces; circling, flying	TS
BZ028	CMVP3	03/12/2021	14:13	Buzzard	1		improved agricultural grassland; perched on tree near n52 for 30min	TS
BZ029	CMVP3	03/12/2021	15:40	Buzzard	1	15	improved agricultural grassland and buildings and artificial surfaces; flying, flying low, lost	TS
BZ030	CMVP3	03/12/2021	16:26	Buzzard	1	10	amenity grassland (improved); flying, flying low, lost behind ring fort	TS
BZ031	CMVP4	04/12/2021	07:42	Buzzard	1		amenity grassland (improved); perched on the football pitch	TS
BZ032	CMVP4	04/12/2021	07:56	Buzzard	1	15	tilled land and treelines; flying, perched, second BZ, perched in tree line behind the pitch	TS
BZ033	CMVP4	04/12/2021	08:39	Buzzard	1	200	improved agricultural grassland and hedgerows; flying, circling, soaring, lost behind woodland patch	TS
BZ034	CMVP1	11/01/2022	15:25	Buzzard	1		conifer plantation: calling, bird not seen	TS
BZ035	CMVP4	13/01/2022	08:16	Buzzard	1	20	tilled land, hedgerows and improved agricultural grassland; flying, perched, perched on post for 45 min, then flew back NW behind forestry block	TS
BZ036	CMVP4	26/01/2022	16:22	Buzzard	1	25	tilled land and treelines; flying, perched	TS
BZ037	CMVP5	27/01/2022	09:18	Buzzard	1	15	hedgerows and improved agricultural grassland; flying, perched	TS

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
BZ038	CMVP4	03/02/2022	07:41	Buzzard	2		amenity grassland (improved); perched, after 30 min flew n	TS
BZ039	CMVP5	03/02/2022	15:41	Buzzard	1	45	improved agricultural grassland and treelines; flying, perched	TS
BZ040	CMVP5	03/02/2022	16:13	Buzzard	1		hedgerows, improved agricultural grassland and treelines; perching, flying, calling, calling, flying and perching for 15 min, then flew e	TS
BZ041	CMVP1	23/02/2022	07:19	Buzzard	1	90	cutover bog and mixed broadleaved/conifer woodland; flying hunting	TS
BZ042	CMVP1	23/02/2022	07:54	Buzzard	1	25	cutover bog and conifer plantation; flying, perched, mobbed by HC	TS
BZ043	CMVP4	24/02/2022	16:19	Buzzard	1	65	improved agricultural grassland and scrub; flying, mobbed by HC	TS
BZ044	CMVP4	24/02/2022	16:33	Buzzard	1	20	improved agricultural grassland and immature woodland; flying, perched	TS
BZ045	CMVP1	01/03/2022	16:25	Buzzard	1	50	cutover bog and scrub; flying, circling	TS
BZ046	CMVP4	03/03/2022	06:59	Buzzard	1		amenity grassland (improved); perched, staying and perching in one area for 30 min, then flew n	TS
BZ047	CMVP4	27/03/2022	17:28	Buzzard	1	145	improved agricultural grassland and treelines, flying, circling	TS
BZ048	CMVP4	27/03/2022	17:28	Buzzard	1	100	improved agricultural grassland and treelines, flying, circling	TS
BZ049	CMVP5	14/04/2022	06:50	Buzzard	1	0	improved grassland; perched in tree	EF
BZ050	CMVP5	14/04/2022	07:00	Buzzard	1	2	improved grassland: flew low off tree, lost below tree line	EF
BZ051	CMVP5	14/04/2022	08:05	Buzzard	1	15	improved grassland; in flight	EF
BZ052	CMVP1	23/04/2022	18:55	Buzzard	1	5	heath: landed on pine tree, left tree at 19:15	EF

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ001	Vantage Point Survey, VP16	20/04/2020	13:10	Buzzard	1		PC
BZ002	Vantage Point Survey, VP16	20/04/2020		Buzzard	5		PC
BZ003	Vantage Point Survey, VP13	21/04/2020		Buzzard	3		PC
BZ004	Vantage Point Survey, VP11	22/04/2020		Buzzard	1		PC
BZ005	Vantage Point Survey, direction of VP9 and VP10	27/04/2020		Buzzard	2		PC
BZ006	Vantage Point Survey, behind VP	27/04/2020		Buzzard	2		PC
BZ007	Vantage Point Survey, near Robbersbush woods	27/04/2020		Buzzard	1		PC
BZ008	Vantage Point Survey, behind VP3	28/04/2020		Buzzard	1		PC
BZ009	Vantage Point Survey, VP5	07/05/2020		Buzzard	1		PC
BZ010	Vantage Point Survey, VP5	21/05/2020		Buzzard	1		PC
BZ011	Vantage Point Survey, VP2	08/06/2020		Buzzard	1		PC
BZ012	Vantage Point Survey, VP8	10/06/2020		Buzzard	2		PC
BZ013	Vantage Point Survey, VP8	10/06/2020		Buzzard	1		PC
BZ014	Breeding Woodcock Survey, T6	15/06/2020	21:00	Buzzard	1		DM
BZ015	Vantage Point Survey, VP14	15/06/2020		Buzzard	1		DM
BZ016	Vantage Point Survey, VP15	16/06/2020		Buzzard	1		DM
BZ017	Breeding Woodcock Survey, T8	17/06/2020	22:26	Buzzard	1	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
BZ018	Waterbird Distribution Survey, Lough Analla	06/08/2020		Buzzard	3		PW
BZ019	Vantage Point Survey, VP2	11/08/2020		Buzzard	1		PC
BZ020	Waterbird Distribution Survey, river Boyne (site no. 9)	27/08/2020		Buzzard	1		PW
BZ021	Waterbird Distribution Survey, hill of down royal canal (o10)	10/09/2020	11:04	Buzzard	1		PW
BZ02	Waterbird Distribution Survey, Inchamore bridge-river Boyne (oo8)	10/09/2020	11:52	Buzzard	1		PW

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ023	Waterbird Distribution Survey, Inchamore bridge-river Boyne (oo8)	10/09/2020	12:13	Buzzard	1		PW
BZ024	Waterbird Distribution Survey, Lough Analla	10/09/2020	15:25	Buzzard	2		PW
BZ025	Vantage Point Survey, level crossing	10/09/2020		Buzzard	1		PC
BZ026	Waterbird Distribution Survey, Lough Analla (oo2)	24/09/2020	14:34	Buzzard	2		PW
BZ027	Waterbird Distribution Survey, Lough Analla (oo3)	24/09/2020	14:54	Buzzard	1		PW
BZ028	Waterbird Distribution Survey, Annalla lakes	04/10/2020		Buzzard	3	improved agricultural grassland, feeding on worms	DM
BZ029	Waterbird Distribution Survey,	04/10/2020		Buzzard	1	improved agricultural grassland; on ESB pole south of lake	DM
BZ030	Waterbird Distribution Survey,	07/10/2020		Buzzard	2		DM
BZ031	Waterbird Distribution Survey,	07/10/2020		Buzzard	1		DM
BZ032	Waterbird Distribution Survey,	07/10/2020		Buzzard	1		DM
BZ033	Waterbird Distribution Survey, Reynella Lake	19/10/2020		Buzzard	1		DM
BZ034	Waterbird Distribution Survey, Lough Annalla	19/10/2020		Buzzard	1		DM
BZ035	Waterbird Distribution Survey, Crowinstown lake	19/10/2020		Buzzard	1		DM
BZ036	Winter Walkover Survey, 1b	22/10/2020	10:50	Buzzard	2	bogs; calling	JC
BZ037	Winter Walkover Survey, 2c	23/10/2020	10:17	Buzzard	1	conifer plantation; sound of bird	JC
BZ038	Winter Walkover Survey, 2b	23/10/2020	11:36	Buzzard	1	semi-natural woodland; flying	JC
BZ039	Connectivity Vantage Point Survey, CMVP 1	01/12/2020		Buzzard	1		KB
BZ040	Waterbird Distribution Survey, N of Ballivor	11/12/2020		Buzzard	1	arable crops; in stubble field feeding	DM
BZ041	Waterbird Distribution Survey, in stubble field	30/12/2020		Buzzard	1	improved agricultural grassland; on roadside tree	DM
BZ042	Waterbird Distribution Survey, Crowinstown lake	12/01/2021	10:30	Buzzard	1	improved agricultural grassland; hunting, on ESB pole	DM
BZ043	Waterbird Distribution Survey, Annalla lakes	12/01/2021	11:30	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer woodland; hunting, flying over	DM

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ044	Breeding Barn Owl Survey, BOVP1	25/01/2021	09:16	Buzzard	1	improved agricultural grassland; hunting, dropped to ground at end of field and looked to take something, then flew to perch in tree	DW
BZ045	Waterbird Distribution Survey, Reynella Lake	28/01/2021	14:00	Buzzard	2	improved agricultural grassland; hunting, on ESB pole along road	DM
BZ046	Waterbird Distribution Survey, S of Ballivor	08/02/2021	10:30	Buzzard	1	improved agricultural grassland; hunting, roadside ESB pole	DM
BZ047	Waterbird Distribution Survey, Crowinstown lake	08/02/2021	11:30	Buzzard	1	improved agricultural grassland; hunting, field near lake	DM
BZ048	Waterbird Distribution Survey, Johnstown Lake	08/02/2021	12:30	Buzzard	1	improved agricultural grassland; hunting, on roadside tree	DM
BZ049	Waterbird Distribution Survey, Crowinstown lake	19/02/2021	11:00	Buzzard	1	improved agricultural grassland; hunting, on roadside tree	DM
BZ050	Waterbird Distribution Survey, Reynella Lake	19/02/2021	14:30	Buzzard	1	improved agricultural grassland; hunting, in grass field	DM
BZ050	Vantage Point Survey, BOVP1	25/02/2021	17:55	Buzzard	1	improved agricultural grassland, travelling and perching, perching in tree	DW
BZ051	Vantage Point Survey, BOVP1	25/02/2021	18:10	Buzzard	1	improved agricultural grassland, travelling from perch in tree	DW
BZ052	Winter Walkover Survey, section 2	26/02/2021	11:32	Buzzard	1	cutover bog and woodland and scrub; flying, seen during break	PT
BZ053	Breeding Barn Owl Survey, BOVP1	15/03/2021	18:00	Buzzard	1	improved agricultural grassland, travelling	DW
BZ054	Waterbird Distribution Survey, over bog	15/03/2021	11:34	Buzzard	1	raised bog, wet heath and scrub, soaring over bog, heading w	NM
BZ055	Waterbird Distribution Survey,	15/03/2021	11:53	Buzzard	2	immature woodland, improved agricultural grassland and hedgerows; pair soaring high to s	NM
BZ056	Waterbird Distribution Survey,	30/03/2021	08:56	Buzzard	1	mixed broadleaved/conifer woodland and improved agricultural grassland, flying low and swooping over woodland	NM

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ057	Waterbird Distribution Survey,	30/03/2021	14:37	Buzzard	2	raised bog, improved agricultural grassland and canals, soaring high above bog and canal	NM
BZ058	Waterbird Distribution Survey,	30/03/2021	16:05	Buzzard	1	other artificial lakes and ponds, improved agricultural grassland and depositing/lowland rivers; perched on riparian treeline, flew away N calling	NM
BZ059	Waterbird Distribution Survey,	30/03/2021	16:23	Buzzard	1	improved agricultural grassland and hedgerows, soaring over farmland just S of Derrymore springs	NM
BZ060	Vantage Point Survey, on way to VP 15	21/04/2021	15:02	Buzzard	1	cutover bog; soaring and foraging	KB
BZ061	Breeding Raptor Survey, driving from BRVP7	26/04/2021	17:00	Buzzard	1	treelines and improved agricultural grassland, soaring	KB
BZ062	Vantage Point Survey, VP4	25/05/2021	11:15	Buzzard	1	cutover bog and mixed broadleaved/conifer woodland; roadside tree, as I left site	DM
BZ063	Vantage Point Survey, VP4	25/05/2021	11:18	Buzzard	1	cutover bog and mixed broadleaved/conifer woodland; roadside tree, as I left site	DM
BZ064	Vantage Point Survey, access track to VP14	16/06/2021	11:50	Buzzard	1	immature woodland, scrub and cutover bog; flew low out of trees - foraging	KB
BZ065	Breeding Woodcock Survey, WKT3	17/06/2021	21:25	Buzzard	1	bogs; travelling	TR
BZ066	Breeding Woodcock Survey, WKT1	28/06/2021	21:15	Buzzard	1	improved agricultural grassland; perched on ESB wire, perched on ESB wire for 5 mins before flying off over hedgerow	IH
BZ067	Vantage Point Survey, observed from the old railway crossing near VP7.	20/07/2021	11:15	Buzzard	1	wet heath; soaring and calling.	CR
BZ068	Vantage Point Survey, observed from track between VP2 and VP4.	12/08/2021	11:05	Buzzard	1	cutover bog; hunting, observed hunting over the bog. last seen heading southwest.	CR
BZ069	Waterbird Distribution Survey, Dryderstown	27/08/2021	15:13	Buzzard	1	improved grassland and treelines; travelling	TR

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ070	Vantage Point Survey, on the road near the royal air model flying club.	16/09/2021	14:08	Buzzard	1	improved grassland; flying, adult flying low over the road. last seen heading south.	CR
BZ071	Waterbird Distribution Survey, Inchamore bridge	20/09/2021	13:23	Buzzard	1	improved agricultural grassland; perched on pole, juvenile	TR
BZ072	Waterbird Distribution Survey, Scariff bridge	20/09/2021	13:42	Buzzard	1	improved agricultural grassland and lakes and ponds; perched on pole	TR
BZ073	Waterbird Distribution Survey, Printinstown	20/09/2021	16:18	Buzzard	1	highly modified/non-native woodland; calling	TR
BZ074	Vantage Point Survey, rear of VP2	11/10/2021	09:10	Buzzard	1	bogs and bog woodland; calling, not seen, only heard calling	JM
BZ075	Vantage Point Survey, rear of VP2	11/10/2021	10:53	Buzzard	1	bogs and bog woodland; calling, heard calling, not seen	JM
BZ076	Waterbird Distribution Survey, N of Ballivor	15/10/2021	11:00	Buzzard	1	arable crops; hunting	DM
BZ077	Waterbird Distribution Survey, Crowinstown lake	15/10/2021	11:30	Buzzard	1	lakes and ponds and improved agricultural grassland; hunting	DM
BZ078	Vantage Point Survey, rear of VP11 viewshed	29/10/2021	08:38	Buzzard	1	bogs and bog woodland; calling, not seen	JM
BZ079	Vantage Point Survey, VP15	12/11/2021	11:48	Buzzard	1	cutover bog and bog woodland; flushed	KS
BZ080	Hen Harrier Roost Survey, HHVP3	19/11/2021	07:22	Buzzard	1	bogs and bog woodland; calling, heard calling, not seen	JM
BZ081	Waterbird Distribution Survey, Crowinstown lake	26/11/2021	11:30	Buzzard	1	improved agricultural grassland; hunting, on ESB pole	DM
BZ082	Waterbird Distribution Survey, Annalla lakes	26/11/2021	13:30	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer woodland; hunting	DM
BZ083	Vantage Point Survey, near road 1km SE from VP1	12/12/2021	14:40	Buzzard	1	treelines and cutover bog; flying	TS
BZ084	Waterbird Distribution Survey, n. of Ballivor	13/12/2021	11:00	Buzzard	1	arable crops; travelling	DM
BZ085	Waterbird Distribution Survey, Reynella Lake	13/12/2021	15:15	Buzzard	1	improved agricultural grassland; hunting, on ESB pole	DM
BZ086	Waterbird Distribution Survey, southwest of Collinstown	13/12/2021	13:12	Buzzard	1	improved agricultural grassland; perched	JM
BZ087	Wintering Golden Plover Survey, hill of down bridge	14/12/2021	10:11	Buzzard	1	improved agricultural grassland, treelines and canals, travelling	JM

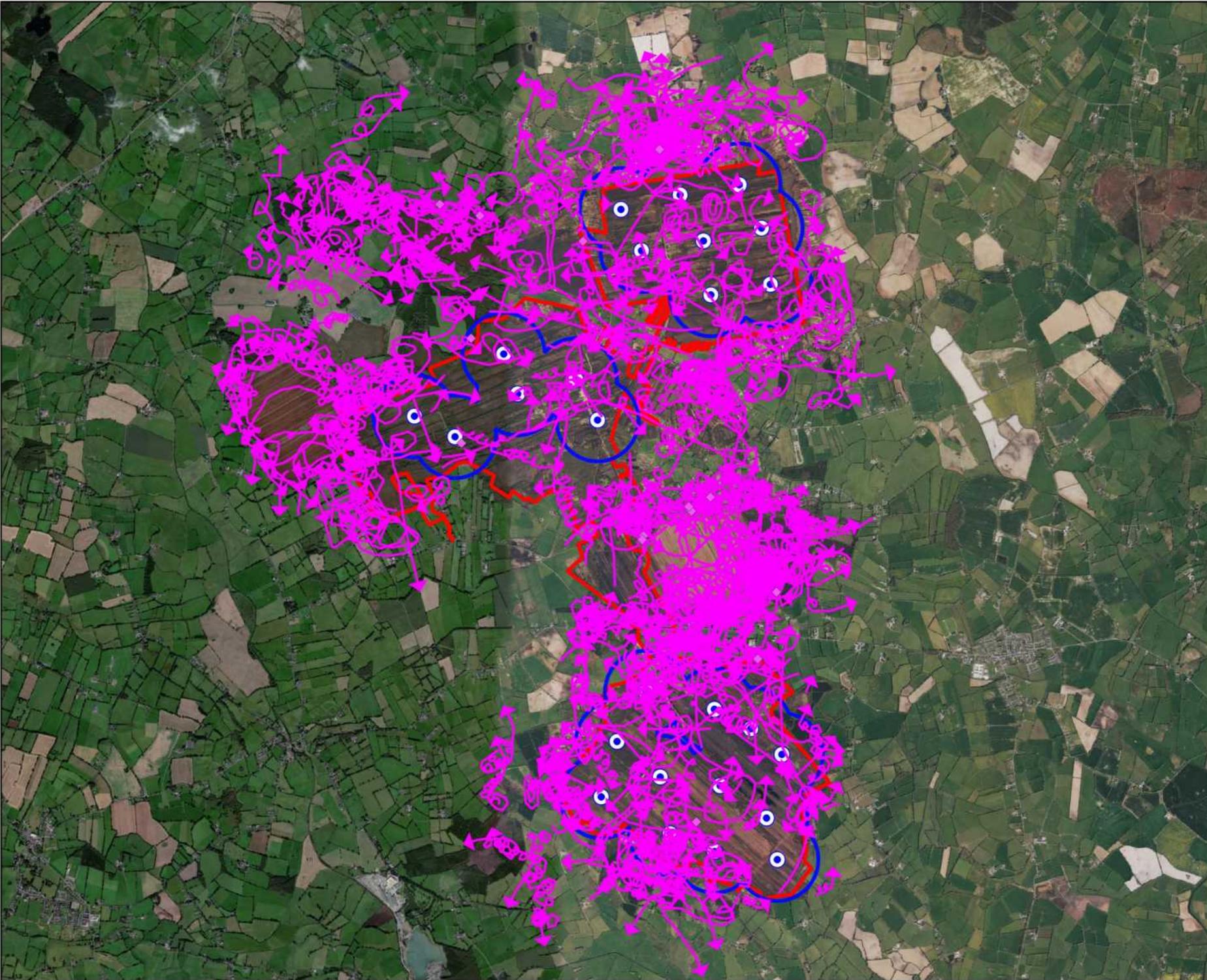
Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ088	Wintering Golden Plover Survey, Marlinstown	14/12/2021	13:29	Buzzard	1	improved agricultural grassland and hedgerows; perched	JM
BZ089	Waterbird Distribution Survey, Killyon	28/12/2021	10:30	Buzzard	2	improved agricultural grassland, feeding, worms	DM
BZ090	Waterbird Distribution Survey, Annalla lakes	28/12/2021	14:00	Buzzard	1	lakes and ponds, mixed broadleaved/conifer woodland and improved agricultural grassland; hunting	DM
BZ091	Vantage Point Survey, aeromodellers club vicinity	07/01/2022	10:14	Buzzard	1	mixed broadleaved/conifer woodland, hedgerows and improved agricultural grassland; perched-fly-perched	JM
BZ092	Hen Harrier Roost Survey, HHVP4	07/01/2022	15:06	Buzzard	2	cutover bog and mixed broadleaved/conifer woodland; circling	KS
BZ093	Vantage Point Survey, rear of VP1	07/01/2022	15:58	Buzzard	2	mixed broadleaved/conifer woodland and bogs, calling	JM
BZ094	Wintering Golden Plover Survey, Lough Glass east of Lough Bane	19/01/2022	13:51	Buzzard	1	improved agricultural grassland; perched on telegraph pole	JM
BZ095	Wintering Golden Plover Survey, Lough Lene	19/01/2022	14:45	Buzzard	1	lakes and ponds and improved agricultural grassland, travelling	JM
BZ096	Wintering Golden Plover Survey, Kinnegad outskirts	20/01/2022	13:21	Buzzard	1	improved agricultural grassland; perched	JM
BZ097	Wintering Golden Plover Survey, SW of Kinnegad	20/01/2022	13:29	Buzzard	1	improved agricultural grassland, travelling	JM
BZ098	Waterbird Distribution Survey, river Deel	24/01/2022	10:30	Buzzard	1	arable crops and improved agricultural grassland, travelling	DM
BZ099	Waterbird Distribution Survey, Crowinstown lake	24/01/2022	12:30	Buzzard	1	improved agricultural grassland and mixed broadleaved/conifer woodland, travelling	DM
BZ100	Connectivity Vantage Point Survey, 500m SW of CMVP3	26/01/2022	10:34	Buzzard	1	improved agricultural grassland and buildings and artificial surfaces, flying	TS
BZ101	Hen Harrier Roost Survey, HHVP3	28/01/2022	16:34	Buzzard	1	improved agricultural grassland and cutover bog; soaring/perched, soaring for a time, eventually perched on tree	IH
BZ102	Hen Harrier Roost Survey, HHVP3	28/01/2022	16:35	Buzzard	1	improved agricultural grassland and cutover bog, soaring, soaring high and lost form view after about 20 seconds	IH

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ103	Vantage Point Survey, VP9	28/01/2022	12:41	Buzzard	1	cutover bog; travelling, adult seen taking off low over trees	NM
BZ104	Connectivity Vantage Point Survey, over CMVP3	02/02/2022	14:32	Buzzard	1	improved agricultural grassland, buildings and artificial surfaces and treelines; flying, perched, circling, flew e, perched on the tree	TS
BZ105	Vantage Point Survey, VP6	04/02/2022	12:43	Buzzard	1	cutover bog; soaring/circling	NM
BZ106	Wintering Golden Plover Survey, Ballivor works	09/02/2022	09:40	Buzzard	1	bogs and conifer plantation; travelling	JM
BZ107	Vantage Point Survey, VP7	09/02/2022	10:55	Buzzard	3	cutover bog; travelling/soaring, two animals soaring, another travelling west	NM
BZ108	Wintering Golden Plover Survey, Moorestown	09/02/2022	12:42	Buzzard	2	improved agricultural grassland; one perched feeding, one flying	JM
BZ109	Vantage Point Survey, VP8	10/02/2022	09:20	Buzzard	1	improved agricultural grassland; perched	NM
BZ110	Wintering Golden Plover Survey, Wooddown bog	10/02/2022	10:19	Buzzard	1	improved agricultural grassland, scrub and bogs; perched	JM
BZ111	Wintering Golden Plover Survey, Molerick	10/02/2022	13:23	Buzzard	1	improved agricultural grassland; fly/perch	JM
BZ112	Vantage Point Survey, VP1 rear	15/02/2022	08:15	Buzzard	1	mixed broadleaved/conifer woodland and bogs; calling, only heard calling, not seen	JM
BZ113	Vantage Point Survey, model airfield	01/03/2022	12:00	Buzzard	1	improved agricultural grassland and bogs, travelling/calling	JM
BZ114	Vantage Point Survey, model airfield/ VP1	01/03/2022	12:10	Buzzard	3	bogs, mixed broadleaved/conifer woodland and bog woodland; travelling/calling	JM
BZ115	Wintering Golden Plover Survey, Cloncat, Girley bog	03/03/2022	12:35	Buzzard	1	improved agricultural grassland, travelling	JM
BZ116	Wintering Golden Plover Survey, Wooddown bog	04/03/2022	11:12	Buzzard	1	bogs, scrub and improved agricultural grassland, travelling/calling	JM
BZ117	Wintering Golden Plover Survey, Ballyhaw	04/03/2022	13:30	Buzzard	1	improved agricultural grassland; perched	JM
BZ118	Hen Harrier Roost Survey, HHVP4	10/03/2022	16:58	Buzzard	1	conifer plantation and cutover bog; travelling	NM

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ119	Hen Harrier Roost Survey, HHVP4	10/03/2022	17:06	Buzzard	2	conifer plantation and cutover bog; travelling/hunting, pair emerged from lone conifer tree	NM
BZ120	Hen Harrier Roost Survey, HHVP4	10/03/2022	17:17	Buzzard	2	conifer plantation and cutover bog; travelling/soaring	NM
BZ121	Hen Harrier Roost Survey, HHVP4	10/03/2022	17:46	Buzzard	1	conifer plantation and cutover bog; travelling	NM
BZ122	Hen Harrier Roost Survey, HHVP1	13/03/2022	18:20	Buzzard	2	conifer plantation and raised bog, travelling	NM
BZ123	Waterbird Distribution Survey, Derrymore springs	14/03/2022	08:30	Buzzard	2	lakes and ponds, mixed broadleaved/conifer woodland and improved agricultural grassland; circling	DM
BZ124	Waterbird Distribution Survey, Annalla lakes	14/03/2022	13:00	Buzzard	1	lakes and ponds and mixed broadleaved/conifer woodland; hunting	DM
BZ125	Hen Harrier Roost Survey, HHVP2	16/03/2022	17:24	Buzzard	1	raised bog, travelling, prey item in talons	NM
BZ126	Vantage Point Survey, VP4	21/03/2022	13:27	Buzzard	1	raised bog; perched/flight, perched with purple moor grass in talons	NM
BZ127	Vantage Point Survey, VP5	22/03/2022	13:00	Buzzard	1	raised bog, flying	NM
BZ128	Vantage Point Survey, VP7	27/03/2022	15:23	Buzzard	2	raised bog; hunting	NM
BZ129	Waterbird Distribution Survey, Annalla fields	28/03/2022	12:00	Buzzard	1	improved agricultural grassland; hunting, perched on ESB pole	DM
BZ130	Waterbird Distribution Survey, Annalla lakes	28/03/2022	13:30	Buzzard	1	lakes and ponds and mixed broadleaved/conifer woodland; hunting	DM
BZ131	Wintering Golden Plover Survey, Rathkenna	31/03/2022	09:39	Buzzard	1	improved agricultural grassland, travelling	JM
BZ132	Wintering Golden Plover Survey, Clonnagapple	31/03/2022	12:12	Buzzard	1	improved agricultural grassland, hedgerows and treelines; perch/fly	JM
BZ133	Wintering Golden Plover Survey, Wooddown	01/04/2022	10:24	Buzzard	1	improved agricultural grassland and bogs; perch/fly	JM
BZ134	Vantage Point Survey, Carronstown	08/04/2022	09:59	Buzzard	1	mixed broadleaved/conifer woodland and bogs, calling	JM

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ135	Waterbird Distribution Survey, Crowinstown lake	14/04/2022	11:00	Buzzard	1	lakes and ponds and mixed broadleaved/conifer woodland; circling, over woodland	DM
BZ136	Waterbird Distribution Survey, n. of Ballivor	29/04/2022	10:00	Buzzard	2	arable crops and improved agricultural grassland; circling	DM
BZ137	Breeding Woodcock Survey, WKT9	09/05/2022	20:38	Buzzard	1	cutover bog; flushed, was perched in tree then flew	KS
BZ138	Waterbird Distribution Survey, Crowinstown lake	23/05/2022	16:30	Buzzard	1	lakes and ponds, improved agricultural grassland and mixed broadleaved/conifer woodland, travelling	DM
BZ139	Breeding Raptor Survey, RVP4	29/05/2022	10:20	Buzzard	1	improved grassland and semi-natural grassland; flying, flew low across road while driving towards RVP4 near Bracklin estate.	EF
BZ140	Breeding Raptor Survey, RVP7	30/05/2022	11:25	Buzzard	1	improved grassland, hedgerows and semi-natural grassland; disturbed bird from hedgerow on road to VP. flew into ash tree	EF
BZ141	Breeding Raptor Survey, RVP7	30/05/2022	11:30	Buzzard	1	improved grassland, hedgerows and semi-natural grassland; perched in ash tree. flew out at about 11:35	EF
BZ142	Breeding Raptor Survey, RVP7	30/05/2022	14:45	Buzzard	1	improved grassland, hedgerows and semi-natural grassland; in flight at same spot as incid01	EF
BZ143	Breeding Woodcock Survey, WKT1	09/06/2022	21:59	Buzzard	1	improved agricultural grassland, cutover bog and conifer plantation; travelling/mobbed, mobbed by flock of hooded crow	NM
BZ144	Vantage Point Survey, VP13	14/07/2022	10:12	Buzzard	1	cutover bog; soaring	KS
BZ145	Vantage Point Survey, VP16 route	19/07/2022	09:38	Buzzard	1	cutover bog; calling	KS
BZ146	Vantage Point Survey, VP12	31/08/2022	12:03	Buzzard	1	conifer plantation and cutover bog; calling	NM

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
BZ147	Waterbird Distribution Survey, Annalla fields	07/09/2022	12:30	Buzzard	1	improved agricultural grassland; perched, ESB pole	DM
BZ148	Waterbird Distribution Survey, Reynella Lake	07/09/2022	14:30	Buzzard	1	mixed broadleaved/conifer woodland; roosting	DM
BZ149	Vantage Point Survey, near VP12	08/09/2022	13:50	Buzzard	1	improved agricultural grassland; perched on road	NM
BZ150	Vantage Point Survey, VP12	13/09/2022	13:57	Buzzard	2	cutover bog; soaring	KS
BZ151	Waterbird Distribution Survey, Crowinstown lake	26/09/2022	11:30	Buzzard	2	mixed broadleaved/conifer woodland; circling	DM
BZ152	Vantage Point Survey, driving from VP2 to VP1	27/09/2022	12:20	Buzzard	1	cutover bog and scrub; perched on fence post	EF



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- 500m Turbine Buffer
- Flightline
- ◆ Observation



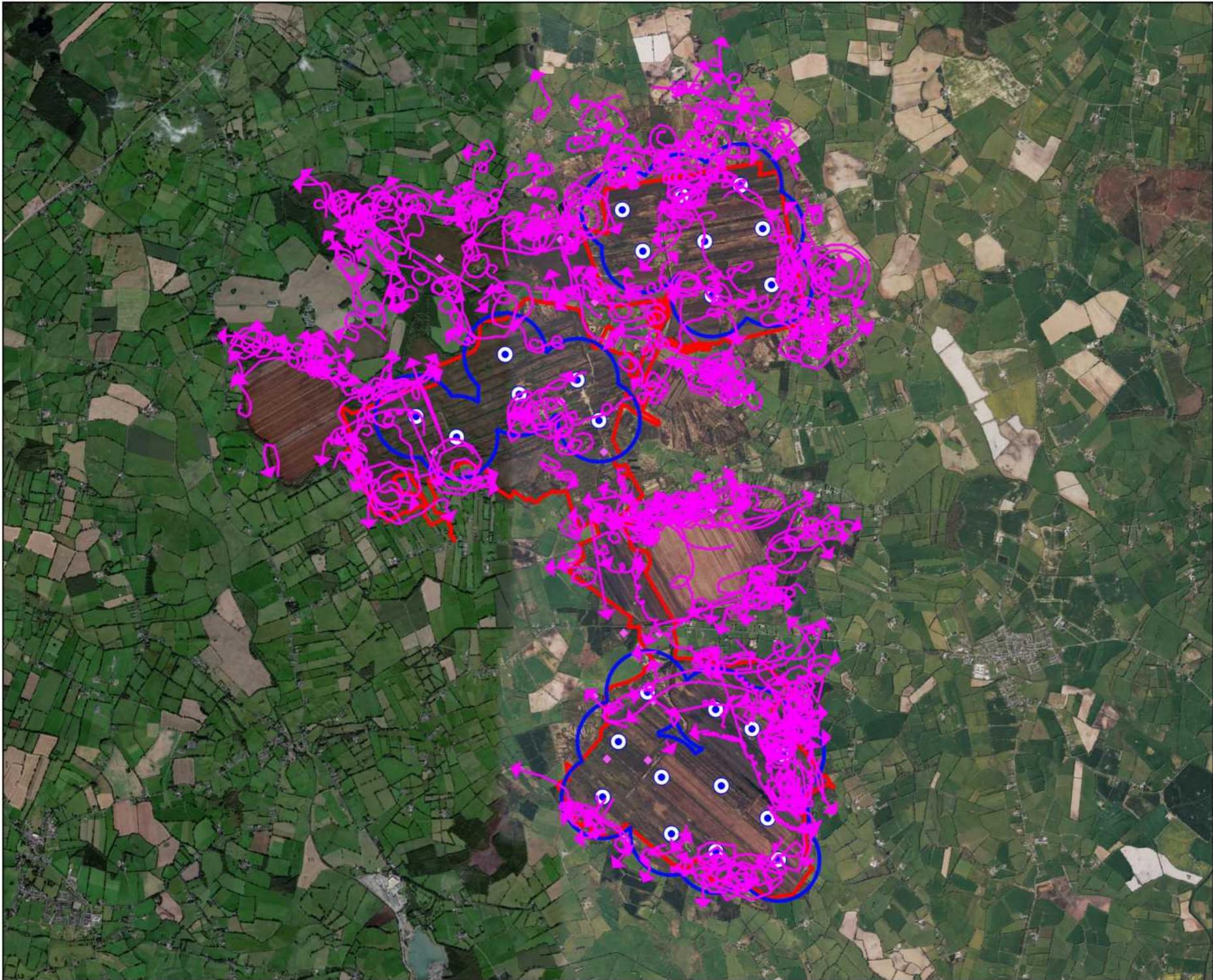
Drawing Title
**Buzzard Obs. (Breeding Season)
 Vantage Point Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.1.16.1
Scale 1:60000	Date 14.02.23

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Map Legend

- Wind Farm Site
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- Flightline
- ◆ Observation

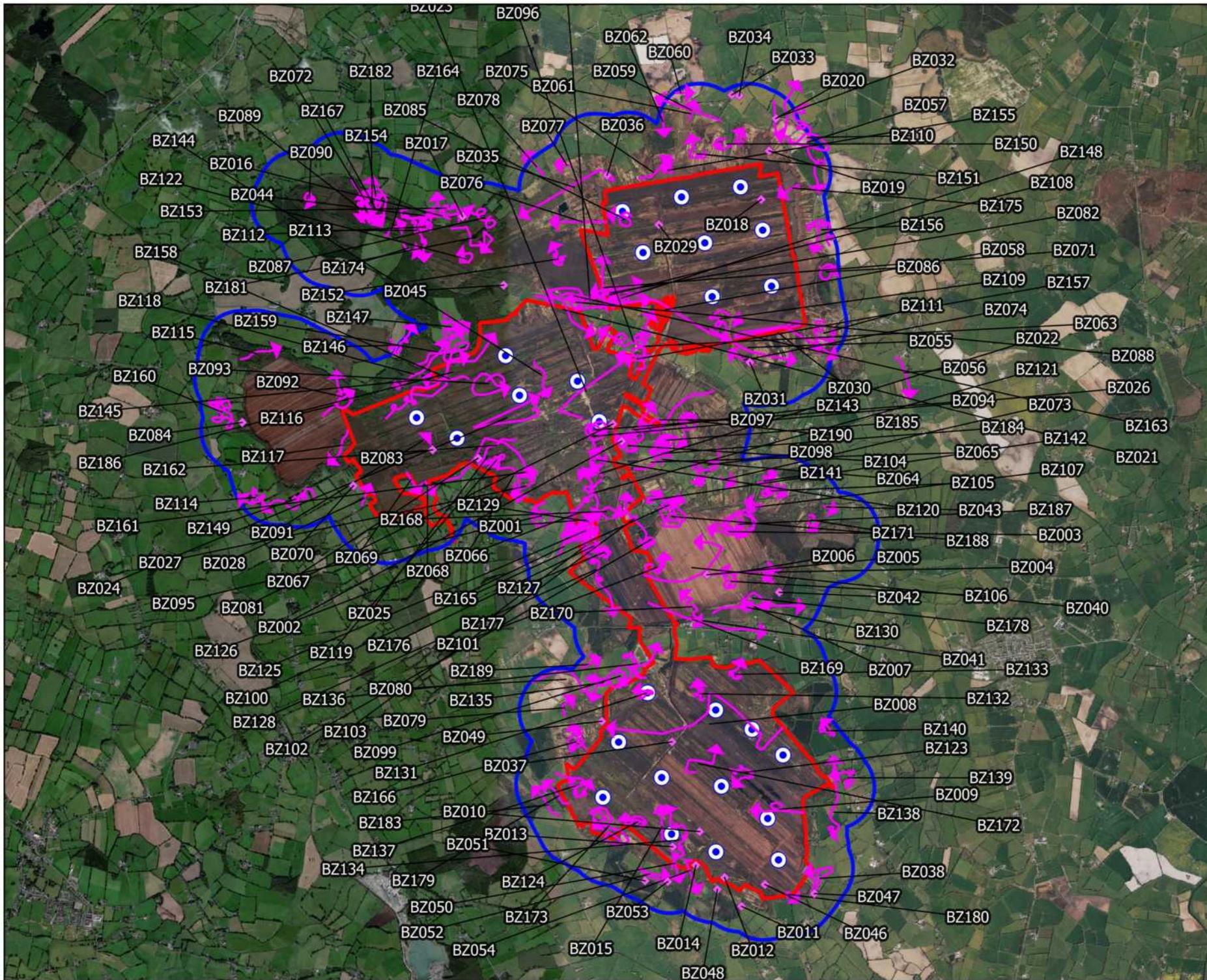


Drawing Title
**Buzzard Obs. (Non-Breeding)
 Vantage Point Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.1.16.2
Scale 1:60000	Date 14.02.23

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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title

**Buzzard Observations
Breeding Walkover Surveys**

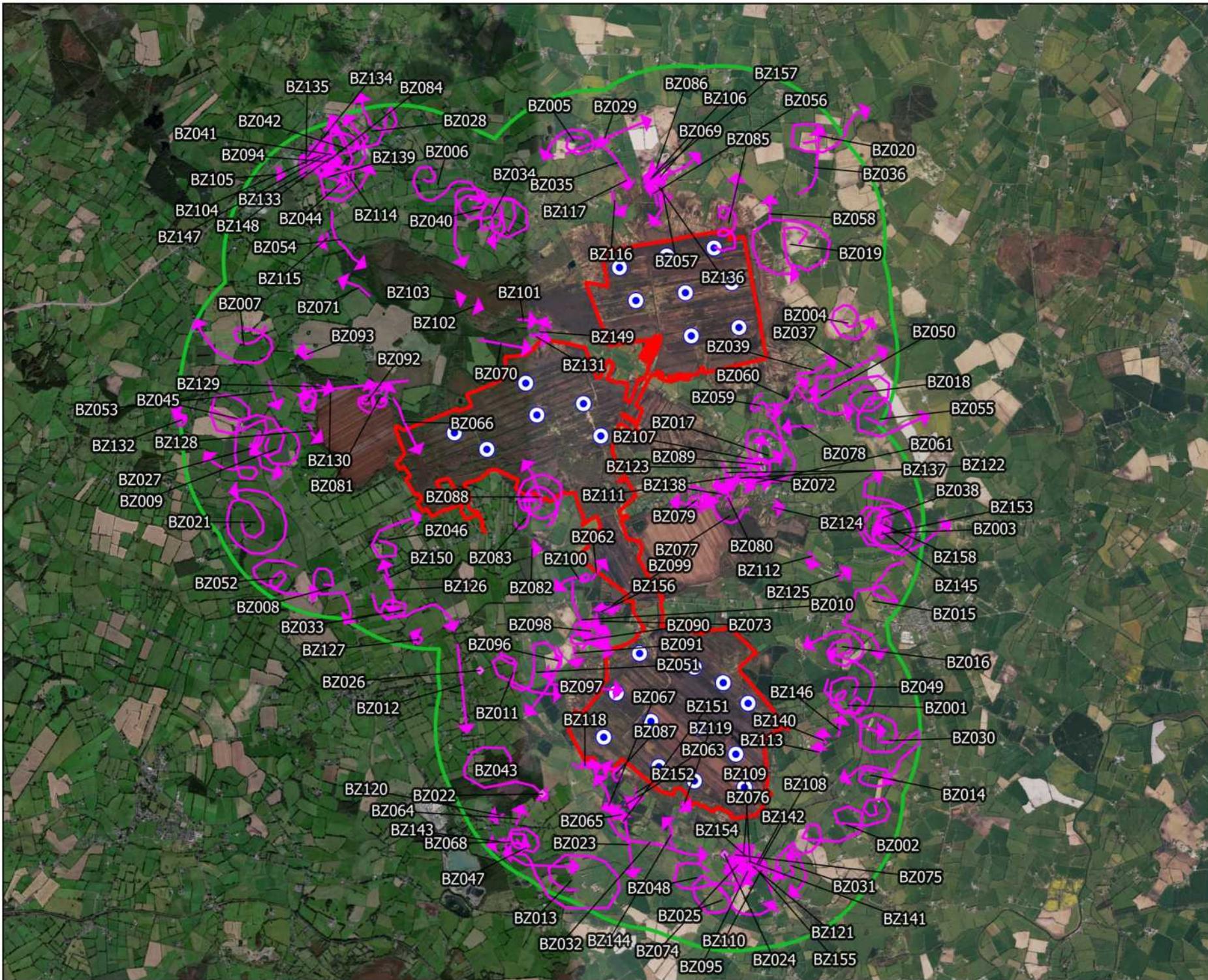
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Ballivor Wind Farm

Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.3.9
Scale	Date
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title

Buzzard Observations
Breeding Raptor Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.4.2

Scale

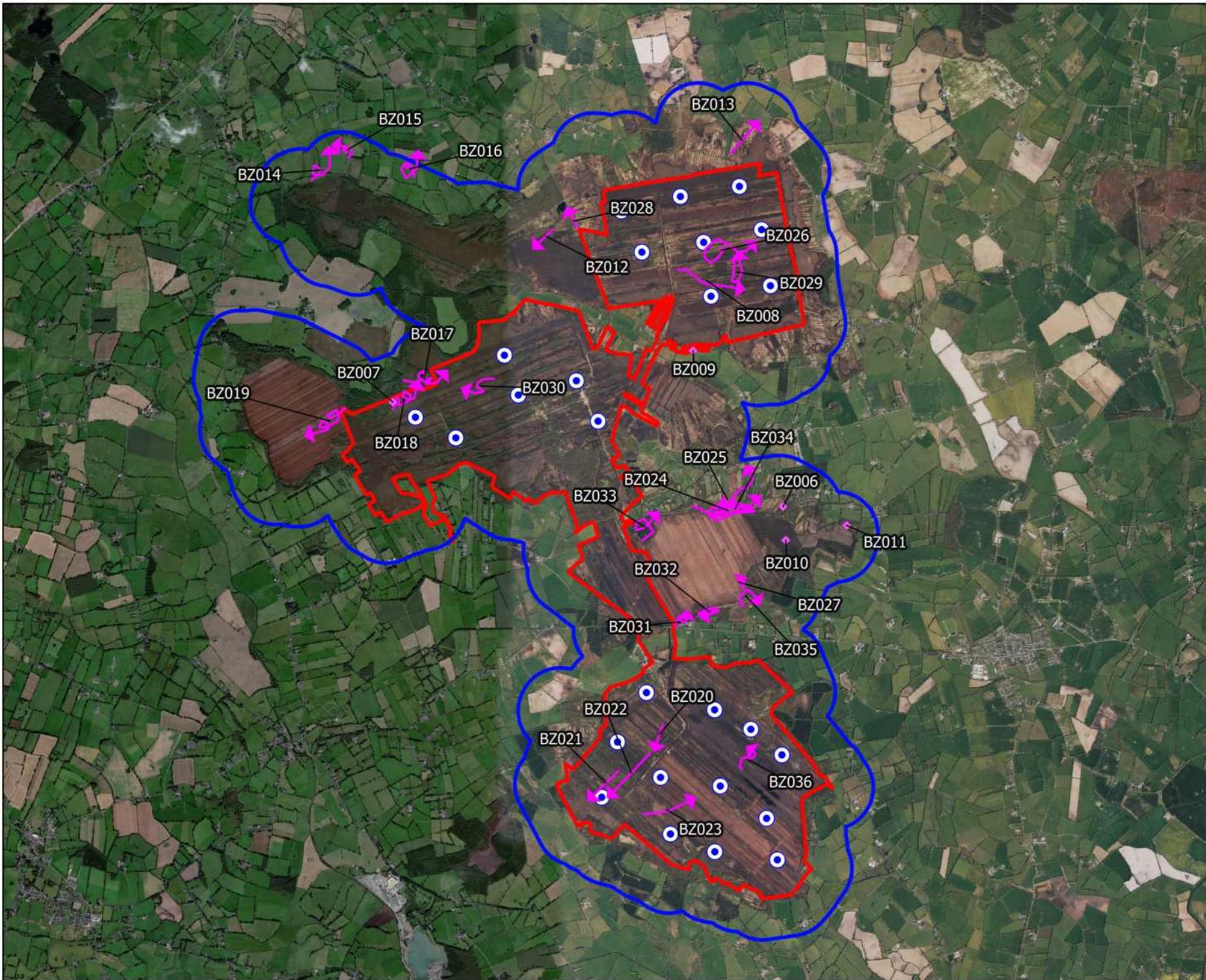
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Date

14.02.23



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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline
- ◆ Observation



Drawing Title

Buzzard Observations
Winter Walkover Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.7.9

Scale

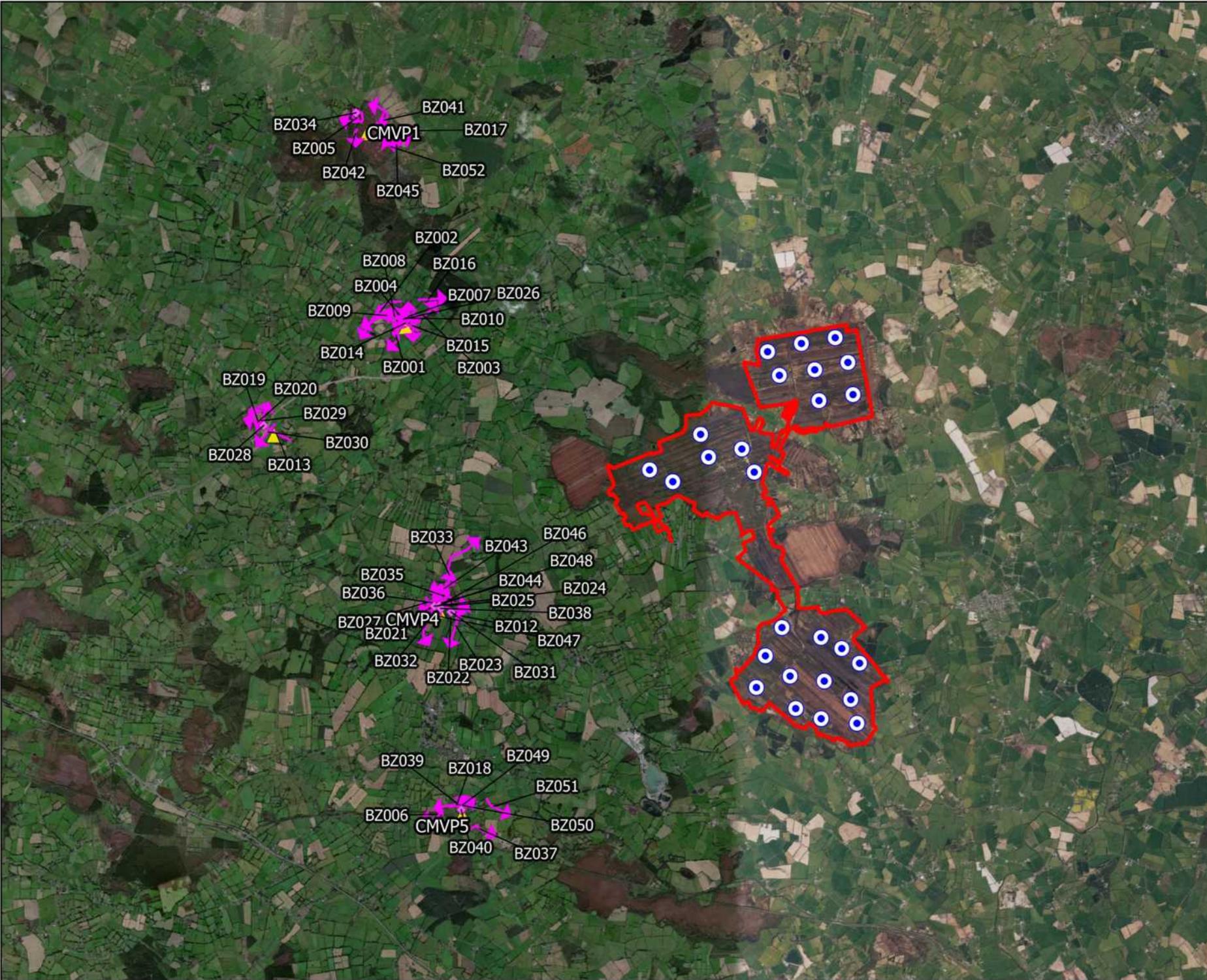
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Date

14.02.23



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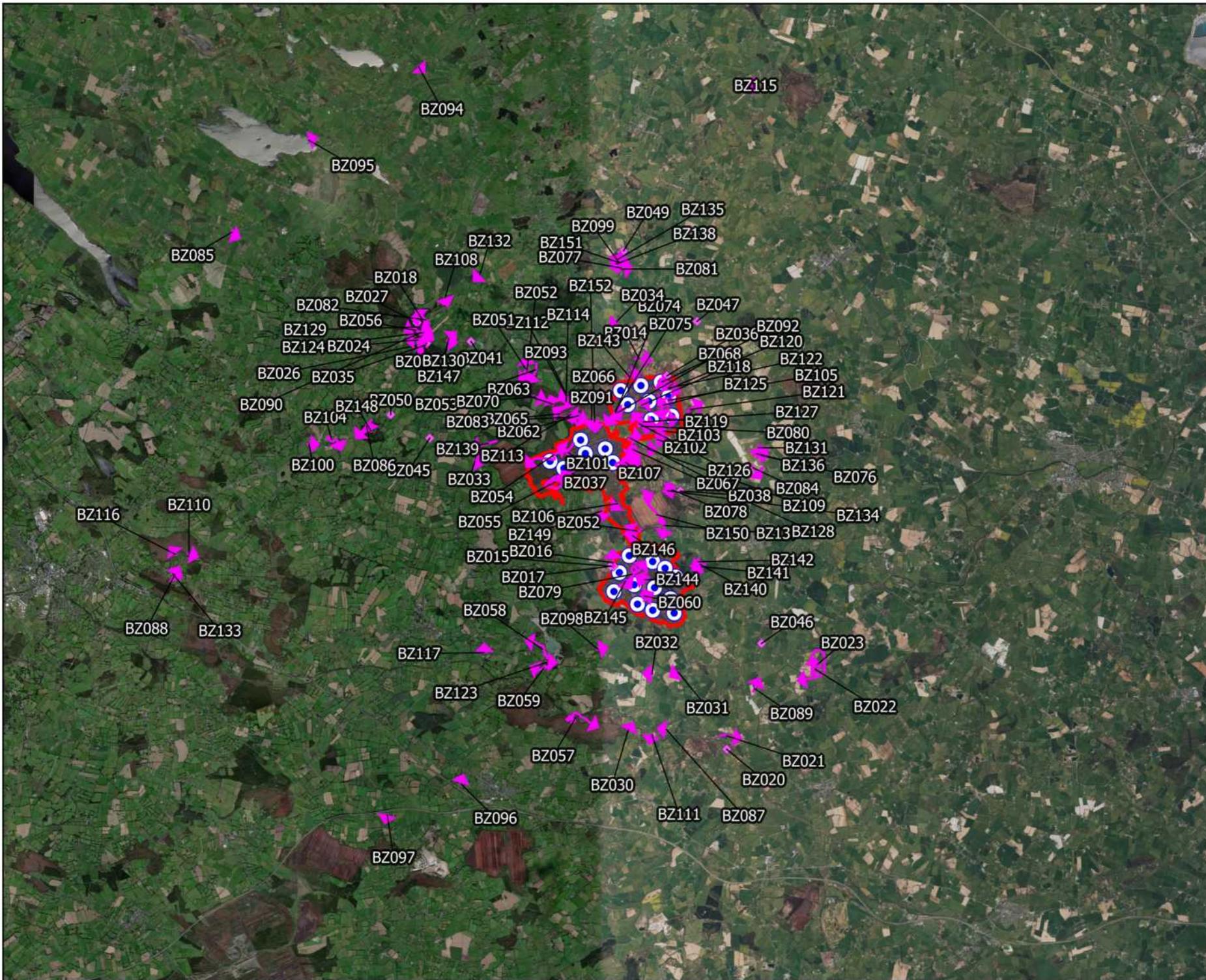
Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- ▲ Connectivity Vantage Point Survey Location
- Flightline



Drawing Title	
Buzzard Observations Connectivity VP Surveys	
Project Title	
Ballivor Wind Farm	
Drawn By	Checked By
P. Manley	P. Cregg
Project No.	Drawing No.
191137	Fig. 7.9.10
Scale	Date
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline
- ◆ Observation

Drawing Title Buzzard Incidental Observations	
Project Title Ballivor Wind Farm	
Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.12.13
Scale 1:175000	Date 14.02.23
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Table 18 Long-eared Owl Survey Data

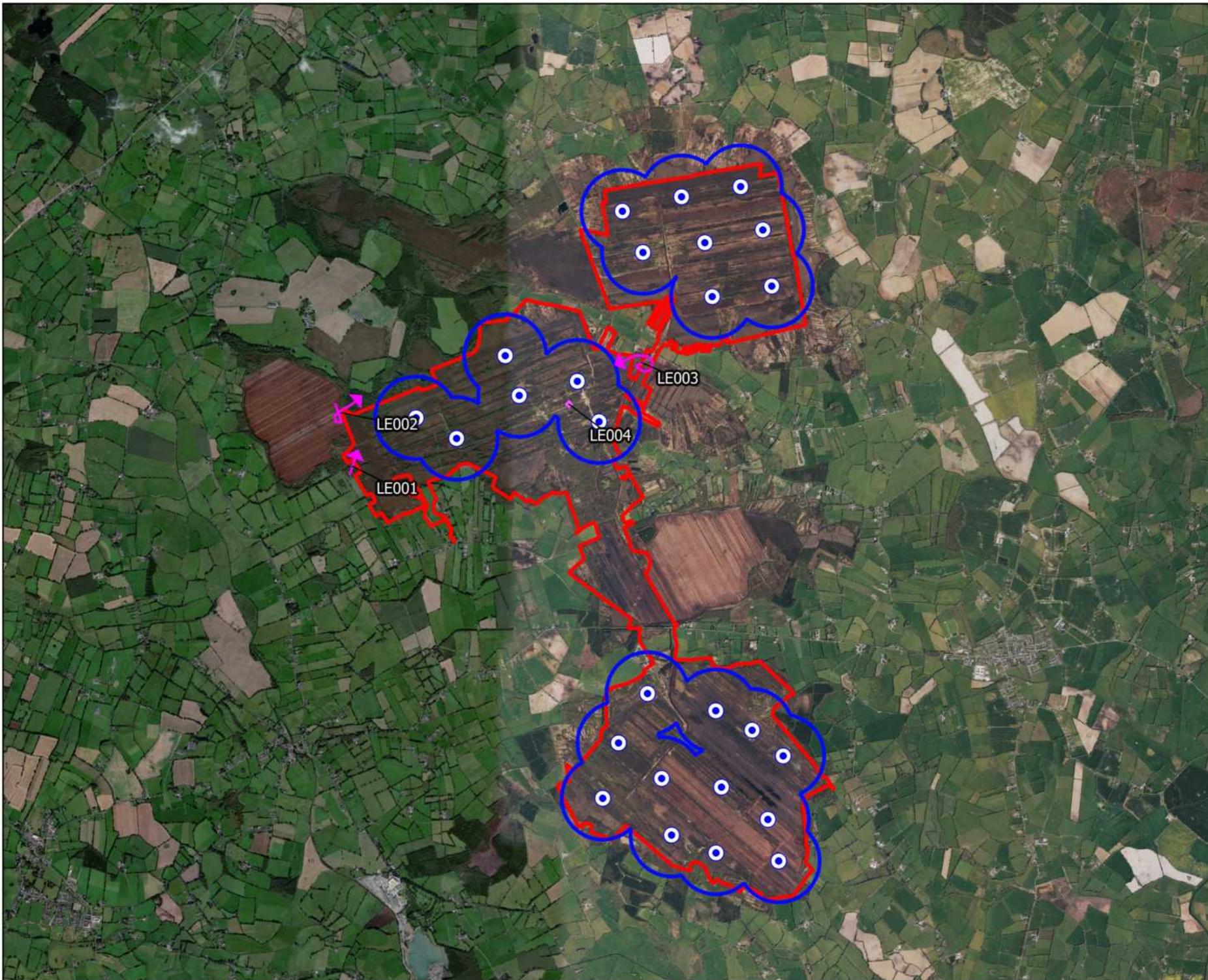
Vantage Point Surveys												
Map Ref.	VP	Date	Time	Species	Number	Duration of flight (s)	Band 1 (0-15m)	Band 2 (15-25m)	Band 3 (25-200m)	Band 4 (>200m)	Habitat and activity	Surveyor
LE001	VP10	05/08/2020	15:40	Long-eared Owl	1	25	25				mixed broadleaved/conifer woodland; flushed from birch tree on laneway to VP	DM
LE002	VP10	09/11/2020	06:55	Long-eared Owl	1	35	35	0	0	0	mixed broadleaved/conifer woodland and cutover bog; hunting, edge of bog and birchwood	DM
LE003	VP7	05/12/2020	17:18	Long-eared Owl	1	60	60	0	0	0	cutover bog; hunting	DM

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
LE004	VP6	20/09/2022	20:14	Long-eared Owl	1	conifer plantation; begging, juvenile heard begging for duration of 15 minutes at VP7	NM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
LE001	CMVP1	04/02/2021	07:00	Long-eared Owl	1	20	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
LE002	CMVP2	15/02/2021	18:30	Long-eared Owl	1		improved agricultural grassland; calling, heard only	DM
LE003	CMVP2	26/02/2021	18:27	Long-eared Owl	1	15	improved agricultural grassland and mixed broadleaved/conifer woodland; calling, flew across road	DM
LE004	CMVP2	08/03/2021	06:15	Long-eared Owl	1		improved agricultural grassland and mixed broadleaved/conifer	DM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
							woodland, calling, conifer in church yard	
LE005	CMVP2	08/03/2021	06:30	Long-eared Owl	1	20	improved agricultural grassland and mixed broadleaved/conifer woodland; flew across road	DM
LE006	CMVP2	23/03/2021	19:12	Long-eared Owl	1		mixed broadleaved/conifer woodland and improved agricultural grassland, calling, conifer in church yard	DM
LE007	CMVP2	23/03/2021	19:24	Long-eared Owl	1	20	mixed broadleaved/conifer woodland and improved agricultural grassland; travelling, flew across road	DM
LE008	CMVP2	15/05/2021	04:49	Long-eared Owl	1	20	mixed broadleaved/conifer woodland and improved agricultural grassland; flushed from conifer	DM

Incidental Observations								
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor	
LE001	Breeding Woodcock Survey, T7	16/06/2020	23:00	Long-Eared Owl	1	mixed broadleaved/conifer woodland, calling, juvenile	DM	
LE002	Vantage Point Survey, off-site	09/03/2021	05:35	Long-Eared Owl	1	improved agricultural grassland and hedgerows; hunting, seen in headlights on way to VP	DW	
LE003	Vantage Point Survey, VP6	31/05/2021	04:20	Long-Eared Owl	1	cutover bog and mixed broadleaved/conifer woodland; hunting along road near VP1, as I drive to VP6	DM	
LE004	Breeding Woodcock Survey, WKT3	17/06/2021	21:28	Long-Eared Owl	1	woodland and scrub and bogs; travelling	TR	
LE005	Breeding Woodcock Survey, WKT11	23/06/2021	23:56	Long-Eared Owl	1	bogs and highly modified/non-native woodland; calling, heard hooting 3 times	TR	



Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  500m Turbine Buffer
-  Flightline
-  Observation



Drawing Title

Long-eared Owl Observations
Vantage Point Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.1.17

Scale

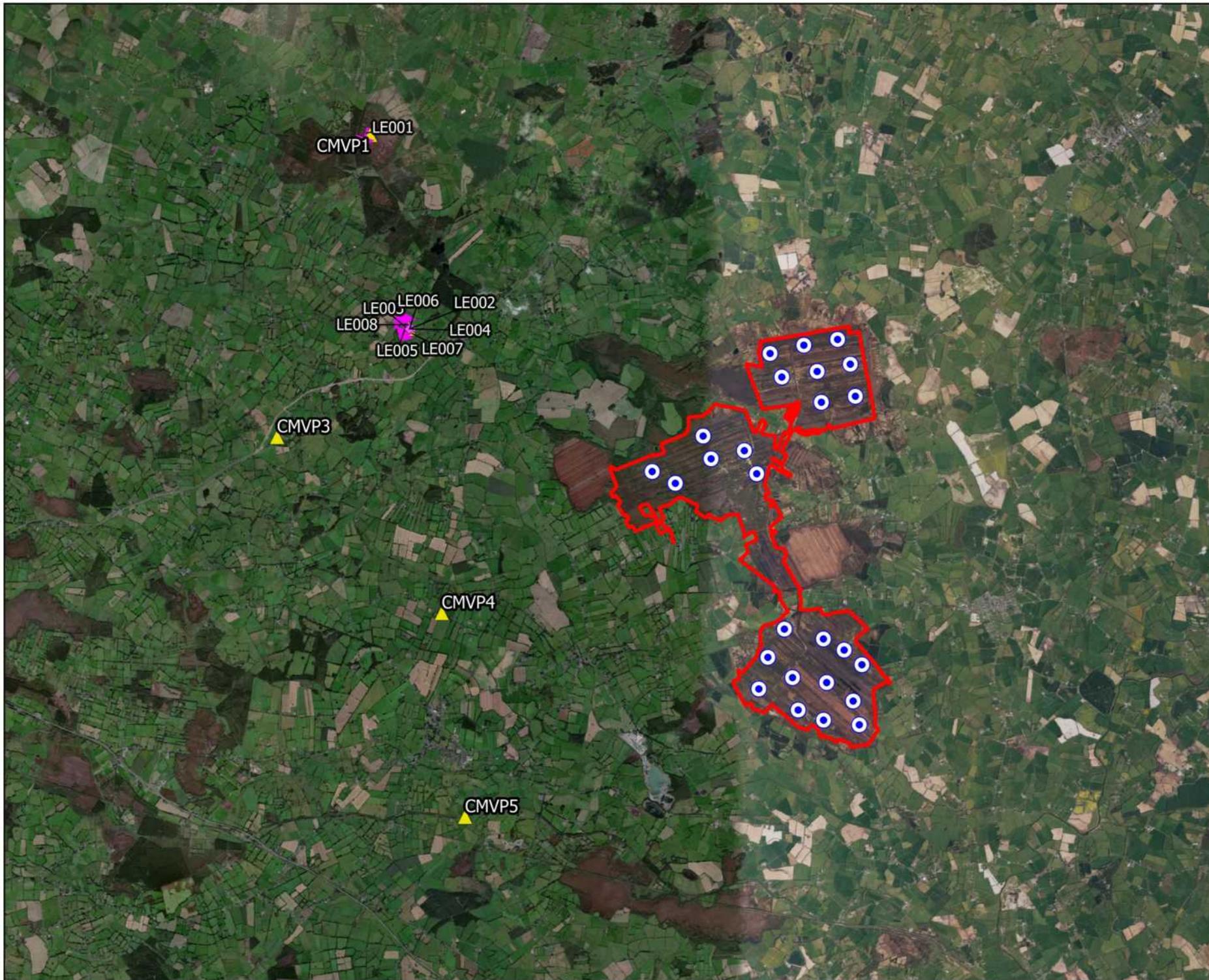
1:60000

Date

14.02.23



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Map Legend

-  Wind Farm Site
-  Proposed Turbine Layout
-  Connectivity Vantage Point Survey Location
-  Flightline



Drawing Title

Long-eared Owl Observations
Connectivity VP Surveys

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.9.11

Scale

1:105000

Date

14.02.23



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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline



<p><small>Drawing Title</small></p> <p>Long-eared Owl Incidental Observations</p>	
<p><small>Project Title</small></p> <p>Ballivor Wind Farm</p>	
<small>Drawn By</small>	<small>Checked By</small>
P. Manley	P. Cregg
<small>Project No.</small>	<small>Drawing No.</small>
191137	Fig. 7.12.14
<small>Scale</small>	<small>Date</small>
1:60000	14.02.23
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Table 19 Sparrowhawk Survey Data

Vantage Point Surveys												
Map 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
SH036	VP15	20/04/2020	14:20	Sparrowhawk	1	29	5	5	19		bog woodland; came out of woodland on VP, soaring above woodland before disappearing near sun, adult female	PC
SH037	VP15	20/04/2020	13:25	Sparrowhawk	1	30	7	10	13		bogs and bog woodland; travelling low and fast over bog initially before soaring over woodland and disappearing near sun, adult female	PC
SH038	VP3	28/04/2020	10:40	Sparrowhawk	1	42			29	13	woodland and scrub and lowland blanket bog; soaring, then climbed very high and lost in glare of sky	PC
SH039	VP4	28/04/2020	13:15	Sparrowhawk	1	5		5			bogs: very brief soar over viewshed, then stoop at passerine behind VP, which it missed, then disappeared behind VP	PC
SH040	VP4	28/04/2020	13:50	Sparrowhawk	1	128		10	76	42	bogs: soaring over viewshed, then stoop at prey, which it missed, then soaring again	PC
SH041	VP1	11/05/2020	09:46	Sparrowhawk	1	16		16			bog woodland; male mobbing BZ008 before heading away from viewshed	PC
SH042	VP5	04/06/2020	10:30	Sparrowhawk	1	5	5				bog woodland and bogs; female disturbed by me moving on the VP. appeared to be feeding on the ground on old railway line to right of VP. flew off very low behind bushes towards viewshed 3.	PC
SH043	VP1	08/06/2020	10:00	Sparrowhawk	1	45		45			bog woodland; circling over woodland but lost against clouds after 4 hooded crows came out of trees towards sh.	PC
SH044	VP7	10/06/2020	11:23	Sparrowhawk	1	5	5				bog woodland: another brief view as SH carrying prey was chased by	PC

Vantage Point Surveys												
Map 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
											mistle thrush as I was noting BZ004. disappeared behind treeline to west of VP	
SH045	VP10	08/07/2020	14:05	Sparrowhawk	1	75			75		cutover bog and mixed broadleaved/conifer woodland; hunting, female	DM
SH046	VP12	21/07/2020	11:10	Sparrowhawk	1	180			180		cutover bog and mixed broadleaved/conifer woodland; hunting, female	DM
SH047	VP12	21/07/2020	11:12	Sparrowhawk	1	60			60		cutover bog and mixed broadleaved/conifer woodland; circling with 1st bird	DM
SH048	VP6	06/07/2020	11:50	Sparrowhawk	1	4	4				bog woodland; flew up out of woodland opposite VP, immediately headed south and disappeared behind treeline.	PC
SH049	VP2	30/07/2020	10:15	Sparrowhawk	1	7		7			bog woodland: soaring briefly over woodland, being mobbed by hirundines.	PC
SH050	VP9	10/08/2020	20:04	Sparrowhawk	1	74			75		mixed broadleaved/conifer woodland and cutover bog; travelling, male	DM
SH051	VP7	18/08/2020	19:44	Sparrowhawk	1	35		35			mixed broadleaved/conifer woodland and cutover bog; hunting, male-flew into birchwood	DM
SH052	VP3	12/08/2020	11:35	Sparrowhawk	1	6	6				bog woodland: very brief flight out of trees then dropped back into trees. Not Mapped	PC
SH053	VP15	18/08/2020	16:26	Sparrowhawk	1	75			75		cutover bog; circling, height 30-50m	PT
SH054	VP15	18/08/2020	16:43	Sparrowhawk	1	235	125	50	60		cutover bog and bog woodland; fairly low initially, circled up behind VP, stooped down to interact with kestrel before landing in birch tree	PT

Vantage Point Surveys												
Map 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
SH055	VP1	29/08/2020	15:12	Sparrowhawk	1	11		11			mixed broadleaved woodland and conifer plantation, flying and gliding low over trees before perching out of view, flying/gliding low over trees before perching out of view	PW
SH056	VP1	29/08/2020	15:45	Sparrowhawk	1	235		20	155	60	mixed broadleaved woodland, conifer plantation and improved agricultural grassland; circling at PCH among 30+ hirundines before climbing above PCH and hunting hirundines intermittently before descending in shallow glide.	PW
SH057	VP1	29/08/2020	16:02	Sparrowhawk	1	91		2	89		raised bog and hedgerows; circling before flying south and dropping below treeline out of view.	PW
SH058	VP11	09/09/2020	07:23	Sparrowhawk	1	35		35			cutover bog and mixed broadleaved/conifer woodland; hunting, male	DM
SH059	VP11	09/09/2020	09:40	Sparrowhawk	1	30	30				cutover bog and mixed broadleaved/conifer woodland; hunting, descended below tree line	DM
SH060	VP11	09/09/2020	10:24	Sparrowhawk	1	300			300		cutover bog and mixed broadleaved/conifer woodland; hunting/circling, with BZ-female	DM
SH061	VP11	09/09/2020	11:26	Sparrowhawk	1	240		40	200		cutover bog and mixed broadleaved/conifer woodland; hunting-chasing MP, mobbed by RN	DM
SH062	VP14	16/09/2020	06:44	Sparrowhawk	1	30	30				cutover bog and mixed broadleaved/conifer woodland; hunting, chased small bird	DM

Vantage Point Surveys												
Map 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
SH063	VP14	16/09/2020	07:00	Sparrowhawk	1	45	25	20			cutover bog and mixed broadleaved/conifer woodland; hunting, male	DM
SH064	VP14	16/09/2020	09:30	Sparrowhawk	1	40			40		cutover bog and mixed broadleaved/conifer woodland; hunting, flew into woodland-male	DM
SH065	VP14	16/09/2020	11:59	Sparrowhawk	1	65			65		cutover bog and mixed broadleaved/conifer woodland; hunting/circling	DM
SH066	VP9	17/09/2020	08:32	Sparrowhawk	2	130			130		cutover bog and mixed broadleaved/conifer woodland; travelling/hunting, male +female	DM
SH067	VP12	18/09/2020	12:15	Sparrowhawk	1	95			95		cutover bog and mixed broadleaved/conifer woodland; hunting, female	DM
SH068	VP4	22/09/2020	11:40	Sparrowhawk	1	132	32	75	25	0	cutover bog; gliding and travelling at height	DW
SH069	VP16	10/09/2020	12:08	Sparrowhawk	1	82	40	42			bogs and bog woodland; female came up out of trees to right of VP. travelled across viewshed circling to gain height. eventually lost it heading in easterly direction.	PC
SH070	VP11	13/10/2020	15:58	Sparrowhawk	1	30	5	5	20	0	immature woodland, cutover bog and scrub; foraging, emerged from woods, flew across bog and descended onto ground amongst scrub	KB
SH071	VP13	16/10/2020	15:30	Sparrowhawk	1	6	6	0	0	0	cutover bog; perched on mound, flew in low from east and landed on mound	KB
SH072	VP6	26/10/2020	13:16	Sparrowhawk	1	30	30	0	0	0	cutover bog and scrub; foraging	KB
SH073	VP14	29/10/2020	13:53	Sparrowhawk	1	34	0	3	31	0	improved agricultural grassland, conifer plantation and raised bog; flying, circling, being mobbed by a	PW

Vantage Point Surveys												
Map 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
											number of rook circled in breeze among crows before diving into trees out of view.	
SH074	VP15	03/11/2020	11:41	Sparrowhawk	1	96	0	0	96	0	cutover bog and arable crops; flying, mobbing, diving, flying and circling at height with BZ mobbing it before flying off and diving down out of sight.	PW
SH075	VP3	20/11/2020	12:43	Sparrowhawk	1	9	9	0	0	0	mixed broadleaved woodland, flying fast through trees	DW
SH076	VP7	02/11/2020	10:15	Sparrowhawk	1	45	45	0	0	0	mixed broadleaved/conifer woodland and cutover bog; hunting, landed briefly on bog-male	DM
SH077	VP10	09/11/2020	08:04	Sparrowhawk	1	45	0	45	0	0	mixed broadleaved/conifer woodland and cutover bog; hunting, female	DM
SH078	VP9	10/11/2020	12:42	Sparrowhawk	1	65	65	0	0	0	mixed broadleaved/conifer woodland and cutover bog; hunting, female-landed briefly in tree	DM
SH079	VP9	10/11/2020	12:46	Sparrowhawk	1	30	30	0	0	0	mixed broadleaved/conifer woodland and cutover bog; mobbed by hooded crows, female	DM
SH080	VP8	13/11/2020	08:51	Sparrowhawk	1	30	30	0	0	0	mixed broadleaved/conifer woodland and cutover bog; hunting, female- flew into birchwood	DM
SH081	VP8	13/11/2020	10:35	Sparrowhawk	1	45	0	45	0	0	mixed broadleaved/conifer woodland and cutover bog; hunting, female	DM
SH082	VP12	17/11/2020	12:53	Sparrowhawk	1	120	0	0	120	0	mixed broadleaved/conifer woodland and cutover bog; hunting	DM
SH083	VP5	23/11/2020	09:01	Sparrowhawk	1	45	45	0	0	0	mixed broadleaved/conifer woodland and cutover bog; hunting, landed briefly on bog-male	DM

Vantage Point Surveys												
Map 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
SH084	VP5	23/11/2020	09:03	Sparrowhawk	1	25	25	0	0	0	mixed broadleaved/conifer woodland and cutover bog; hunting	DM
SH085	VP3	14/12/2020	11:47	Sparrowhawk	1	87	57	30	0	0	conifer plantation and mixed broadleaved woodland; hunting	DW
SH086	VP3	14/12/2020	11:49	Sparrowhawk	1	147	77	40	30	0	mixed broadleaved woodland; hunting; soaring and bombing	DW
SH087	VP1	23/12/2020	13:14	Sparrowhawk	1	125	65	60	0	0	cutover bog, conifer plantation and improved agricultural grassland; hunting, looked to be a female	DW
SH088	VP1	23/12/2020	14:57	Sparrowhawk	1	88	60	28	0	0	cutover bog and mixed broadleaved woodland; hunting	DW
SH089	VP9	09/12/2020	16:32	Sparrowhawk	1	30	30	0	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, male	DM
SH090	VP14	18/12/2020	13:30	Sparrowhawk	1	95	0	45	50	0	cutover bog and mixed broadleaved/conifer woodland; hunting, male	DM
SH091	VP3	15/01/2021	11:39	Sparrowhawk	1	94	34	60	0	0	cutover bog, conifer plantation and improved agricultural grassland; hunting / soaring	DW
SH092	VP2	20/01/2021	08:31	Sparrowhawk	1	35	20	15	0	0	mixed broadleaved woodland and scrub, travelling	DW
SH093	VP2	20/01/2021	12:33	Sparrowhawk	1	135	55	80	0	0	cutover bog and scrub; gliding and travelling	DW
SH094	VP6	21/01/2021	11:36	Sparrowhawk	1	123	23	50	50	0	cutover bog: hunting / soaring, being mobbed by corvid	DW
SH095	VP1	28/01/2021	08:20	Sparrowhawk	1	62	42	20	0	0	cutover bog, conifer plantation and improved agricultural grassland; travelling and gliding, perched in Scots pine	DW
SH096	VP1	28/01/2021	08:24	Sparrowhawk	1	10	10	0	0	0	cutover bog and mixed broadleaved woodland; travelling, flew from perch	DW

Vantage Point Surveys												
Map 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
SH097	VP7	05/01/2021	09:57	Sparrowhawk	1	60	0	0	60	0	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
SH098	VP7	05/01/2021	11:51	Sparrowhawk	1	85	0	30	55	0	cutover bog and mixed broadleaved/conifer woodland; hunting, female-mobbed by HC	DM
SH099	VP8	13/01/2021	11:10	Sparrowhawk	1	30	30	0	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, flew behind birch trees	DM
SH100	VP10	25/02/2021	17:55	Sparrowhawk	1	65	0	65	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, into woodland	DM
SH101	VP12	10/02/2021	14:50	Sparrowhawk	1	20	0	20	0		cutover bog; travelling	KB
SH102	VP14	18/02/2021	18:01	Sparrowhawk	1	5	5	0	0		cutover bog and scrub; travelling, foraging	KB
SH103	VP15	19/03/2021	06:30	Sparrowhawk	1	3	3	0	0	0	cutover bog; travelling/foraging, landed on ground	KB
SH104	VP15	19/03/2021	06:34	Sparrowhawk	1	4	4	0	0	0	cutover bog; took up from ground, travelling/foraging	KB
SH105	VP4	11/03/2021	09:32	Sparrowhawk	1	25	25	0	0	0	cutover bog and scrub; travelling low to ground	DW
SH106	VP3	23/03/2021	08:03	Sparrowhawk	1	265	25	40	200	0	cutover bog, conifer plantation and scrub; hunting, female. gliding and short dives	DW
SH107	VP3	23/03/2021	08:19	Sparrowhawk	2	42	12	20	10	0	conifer plantation and mixed broadleaved woodland; courtship, male and female in courtship display over forestry	DW
SH108	VP3	23/03/2021	09:26	Sparrowhawk	1	160	20	30	110	0	conifer plantation, cutover bog and improved agricultural grassland; hunting	DW

Vantage Point Surveys												
Map 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
SH109	VP3	23/03/2021	09:34	Sparrowhawk	2	134	14	50	70	0	conifer plantation and scrub; hunting together	DW
SH110	VP6	24/03/2021	09:32	Sparrowhawk	2	305	0	55	250	0	conifer plantation, cutover bog and improved agricultural grassland; chasing each other, likely courtship display with male chasing female	DW
SH111	VP8	05/04/2021	18:57	Sparrowhawk	1	30	30	0	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, male	DM
SH112	VP4	19/04/2021	16:15	Sparrowhawk	1	35	35	0	0	0	cutover bog and mixed broadleaved/conifer woodland; hunting, male	DM
SH113	VP6	21/04/2021	21:14	Sparrowhawk	1	40	40	0	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling, female-landed on dead tree	DM
SH114	VP12	05/05/2021	05:37	Sparrowhawk	1	7	7	0	0	0	cutover bog and conifer plantation; foraging	KB
SH115	VP14	17/05/2021	06:17	Sparrowhawk	1	4	4	0	0	0	immature woodland; foraging	KB
SH116	VP14	17/05/2021	09:08	Sparrowhawk	2	14	10	4	0	0	cutover bog, immature woodland and conifer plantation; pair - courtship display, male calling	KB
SH117	VP14	17/05/2021	09:20	Sparrowhawk	1	18	0	6	12	0	cutover bog, immature woodland and conifer plantation; soaring, female soaring - male still calling in trees	KB
SH118	VP10	18/05/2021	06:07	Sparrowhawk	1	45	45	0	0	0	cutover bog and mixed broadleaved/conifer woodland; travelling/hunting, flew into woodland; female	DM
SH119	VP10	18/05/2021	09:24	Sparrowhawk	1	65	0	0	65	0	cutover bog and mixed broadleaved/conifer woodland; travelling, carrying food, carrying food; female	DM

Vantage Point Surveys												
Map 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
SH120	VP14	16/06/2021	14:40	Sparrowhawk	1	4	4	0	0	0	cutover bog and immature woodland; foraging - landed in tree	KB
SH121	VP14	16/06/2021	14:40	Sparrowhawk	1	2	2	0	0	0	immature woodland; foraging	KB
SH122	VP4	22/06/2021	18:05	Sparrowhawk	1	5	5	0	0	0	scrub and cutover bog; flying through, male sparrowhawk flew north - south	SI
SH123	VP16	22/06/2021	14:28	Sparrowhawk	1	15	15	0	0	0	cutover bog and scrub; foraging - landed on ground, took up again heading north, adult male	KB
SH124	VP15	13/07/2021	13:21	Sparrowhawk	1	80	0	0	80	0	highly modified/non-native woodland; soaring, female	AR
SH125	VP14	14/07/2021	17:30	Sparrowhawk	1	120	0	120	0	0	highly modified/non-native woodland; travelling	AR
SH126	VP16	14/07/2021	20:01	Sparrowhawk	1	5	0	5	0	0	cutover bog and highly modified/non-native woodland; travelling, female into woods	AR
SH127	VP16	14/07/2021	20:33	Sparrowhawk	1	10	0	0	10	0	highly modified/non-native woodland; travelling, female again into same area of woodland	AR
SH128	VP16	15/07/2021	13:50	Sparrowhawk	1	200	0	0	200	0	bogs and scrub; soaring	AR
SH129	VP13	04/08/2021	10:43	Sparrowhawk	1	410	10	400	0	0	cutover bog; soaring, in close proximity to BZ	DW
SH130	VP12	12/08/2021	16:07	Sparrowhawk	1	20	20	0	0	0	cutover bog and conifer plantation; foraging	KB
SH131	VP7	20/08/2021	18:10	Sparrowhawk	1	26	26	0	0	0	bogs: hunting, male observed hunting. last seen heading west.	CR
SH132	VP16	26/08/2021	11:04	Sparrowhawk	1	177	0	0	177	0	upland blanket bog; soaring, female	DW
SH133	VP9	30/08/2021	13:00	Sparrowhawk	1	12	12	0	0	0	cutover bog and scrub; foraging	KB
SH134	VP5	15/09/2021	16:41	Sparrowhawk	1	13	13	0	0	0	cutover bog; flying, male observed heading northeast.	CR
SH136	VP3	13/10/2021	09:33	Sparrowhawk	1	12	12	0	0	0	bogs; travelling	JM

Vantage Point Surveys												
Map 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
SH137	VP6	18/10/2021	13:39	Sparrowhawk	1	5	5	0	0	0	bogs: hunting, flock of finches nearby this is VP6 not VP1	JM
SH138	VP9	08/11/2021	15:52	Sparrowhawk	1	6	6	0	6	0	cutover bog and scrub; foraging	KB
SH139	VP3	02/12/2021	08:47	Sparrowhawk	1	32	32	0	32	0	bogs; travelling, female	JM
SH140	VP3	06/12/2021	09:01	Sparrowhawk	1	46	6	0	6	0	conifer plantation and bogs; displaying, displaying above the wood	JM
SH141	VP1	06/12/2021	10:25	Sparrowhawk	1	62	1	5	6	0	bogs and conifer plantation; displaying, displaying briefly over wood	JM
SH142	VP10	10/12/2021	09:01	Sparrowhawk	1	6	6	0	6	0	immature woodland and cutover bog; foraging	KB
SH143	VP9	16/12/2021	09:46	Sparrowhawk	1	130	0	30	30	0	cutover bog, scrub and mixed broadleaved/conifer woodland; flying	TS
SH144	VP9	16/12/2021	09:49	Sparrowhawk	1	55	5	50	55	0	cutover bog and scrub; flying, different bird	TS
SH145	VP9	16/12/2021	11:44	Sparrowhawk	1	90	0	10	10	0	mixed broadleaved/conifer woodland, flying	TS
SH146	VP1	07/01/2022	12:00	Sparrowhawk	1	73	0	73	73	0	conifer plantation and bogs; travelling/displaying	JM
SH147	VP1	07/01/2022	16:54	Sparrowhawk	1	120	0	120	120	0	bogs and mixed broadleaved/conifer woodland; travelling	JM
SH148	VP9	28/01/2022	14:28	Sparrowhawk	1	16	10	6	16	0	raised bog; hunting, female seen flying low with urgency before dipping below trees	NM
SH149	VP9	28/01/2022	15:16	Sparrowhawk	1	116	55	45	100	0	raised bog and cutover bog, displaying	NM
SH150	VP4	02/02/2022	12:03	Sparrowhawk	1	20	0	0	0	0	cutover bog; soaring/travelling	NM
SH151	VP4	02/02/2022	12:50	Sparrowhawk	1	20	5	5	10	0	cutover bog; possible mobbing event with pair of buzzards	NM
SH152	VP2	02/02/2022	13:23	Sparrowhawk	1	24	24	0	24	0	bogs and immature woodland; travelling, female	JM

Vantage Point Surveys												
Map 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
SH153	VP8	10/02/2022	09:55	Sparrowhawk	1	310	20	70	90	0	bog woodland and cutover bog; displaying, female displaying over bog woodland	NM
SH154	VP9	11/02/2022	12:54	Sparrowhawk	1	155	0	5	5	0	cutover bog and conifer plantation; travelling, sparrowhawk involved in altercation with kestrel	NM
SH155	VP12	15/02/2022	08:46	Sparrowhawk	1	35	35	8	43	0	cutover bog and hedgerows; flying, flying from tree to tree low along the ground	EH
SH156	VP1	15/02/2022	09:55	Sparrowhawk	1	20	20	0	20	0	bogs and mixed broadleaved/conifer woodland; travelling	JM
SH157	VP10	01/03/2022	08:22	Sparrowhawk	1	10	10	0	10	0	mixed broadleaved/conifer woodland; foraging	KB
SH158	VP1	01/03/2022	12:49	Sparrowhawk	1	12	0	12	12	0	bogs and mixed broadleaved/conifer woodland; travelling	JM
SH159	VP9	16/03/2022	15:51	Sparrowhawk	2	6	6	0	6	0	cutover bog and immature woodland; chasing each other	KB
SH160	VP11	17/03/2022	15:11	Sparrowhawk	1	15	15	0	15	0	immature woodland; foraging	KB
SH161	VP11	17/03/2022	16:46	Sparrowhawk	1	90	0	5	5	50	immature woodland and cutover bog; soaring	KB
SH162	VP5	10/05/2022	19:50	Sparrowhawk	1	5	5	0	5	0	heath; direct flight, low through birch scrub	EF
SH163	VP12	11/05/2022	19:02	Sparrowhawk	1	20	20	0	20	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
SH164	VP4	31/05/2022	05:21	Sparrowhawk	1	17	0	10	10	0	cutover bog; travelling	NM
SH165	VP10	01/06/2022	17:09	Sparrowhawk	1	360	0	0	0	0	cutover bog and mixed broadleaved/conifer woodland; circling	KS
SH166	VP8	07/07/2022	12:48	Sparrowhawk	1	152	2	30	32	0	conifer plantation; soaring	NM

Vantage Point Surveys												
Map 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
SH167	VP14	07/07/2022	13:16	Sparrowhawk	1	20	20	0	20	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
SH168	VP7	13/07/2022	15:08	Sparrowhawk	1	78	0	12	12	0	conifer plantation; soaring	NM
SH169	VP16	19/07/2022	11:30	Sparrowhawk	1	35	35	0	35	0	cutover bog; travelling	KS
SH170	VP9	21/07/2022	15:54	Sparrowhawk	1	220	0	12	12	0	conifer plantation; soaring	NM
SH171	VP3	26/07/2022	10:20	Sparrowhawk	1	9	9	0	9	0	cutover bog and scrub; hunting, lost in scrub	EF
SH172	VP3	26/07/2022	12:40	Sparrowhawk	1	117	0	0	0	0	cutover bog and scrub; circling, lost behind VP	EF
SH173	VP4	27/07/2022	15:10	Sparrowhawk	1	3	3	0	3	0	cutover bog and scrub; hunting, in the birch scrub	EF
SH174	VP4	27/07/2022	16:05	Sparrowhawk	1	43	3	40	43	0	cutover bog and scrub; circling/flying, flying away from mast. same bird as id 4 (see VP nonflight). flew off with k. then flew north.	EF
SH175	VP1	28/07/2022	12:15	Sparrowhawk	1	92	0	0	0	0	cutover bog and scrub; circling, lost view	EF
SH176	VP2	29/07/2022	12:10	Sparrowhawk	1	22	22	0	22	0	cutover bog and scrub; hunting low, lost into scrub	EF
SH177	VP4	11/08/2022	12:04	Sparrowhawk	1	126	0	0	0	0	cutover bog; soaring/mobbed	NM
SH178	VP7	22/08/2022	14:54	Sparrowhawk	1	26	4	22	26	0	conifer plantation; travelling	NM
SH179	VP8	23/08/2022	17:45	Sparrowhawk	1	368	0	2	2	0	conifer plantation; soaring	NM
SH180	VP13	28/08/2022	11:55	Sparrowhawk	1	5	5	0	5	0	cutover bog and scrub; hunting low to ground, alerted by swallows	EF
SH181	VP14	30/08/2022	16:10	Sparrowhawk	1	22	22	0	22	0	cutover bog and scrub; flying low. quite slow, lost in scrub	EF
SH182	VP13	30/08/2022	08:37	Sparrowhawk	1	20	20	0	20	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS

Vantage Point Surveys												
Map 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
SH183	VP3	30/08/2022	15:38	Sparrowhawk	1	172	0	22	22	0	cutover bog and conifer plantation; soaring/mobbed, mobbed by swallows	NM
SH184	VP3	30/08/2022	15:44	Sparrowhawk	1	136	0	0	0	0	cutover bog; soaring	NM
SH185	VP16	02/09/2022	14:04	Sparrowhawk	1	5	5	0	5	0	cutover bog and mixed broadleaved/conifer woodland; calling	KS
SH186	VP16	02/09/2022	14:28	Sparrowhawk	1	15	15	0	15	0	cutover bog and mixed broadleaved/conifer woodland; travelling	KS
SH187	VP11	06/09/2022	18:13	Sparrowhawk	1	85	14	71	85	0	conifer plantation and cutover bog; travelling/mobbed	NM
SH188	VP9	09/09/2022	16:46	Sparrowhawk	1	164	6	92	98	0	cutover bog and conifer plantation; soaring/mobbed, female mobbed by swallows	NM
SH189	VP14	15/09/2022	07:02	Sparrowhawk	1	10	10	0	10	0	cutover bog and mixed broadleaved/conifer woodland; travelling, hunting, low over ground, heard calling from SW after	KS
SH190	VP14	15/09/2022	08:36	Sparrowhawk	1	20	20	0	20	0	cutover bog and mixed broadleaved/conifer woodland; flew to perch, flew SW perched in tree for ~5mins	KS
SH191	VP6	21/09/2022	16:35	Sparrowhawk	1	8	8	0	8	0	bogs: travelling/hunting, male observed flying low over bog	NM
SH192	VP16	25/09/2022	18:05	Sparrowhawk	1	19	19	0	19	0	heath and scrub; hunting a small passerine, lost when they went low through scrub	EF
SH193	VP2	27/09/2022	12:10	Sparrowhawk	1	42	0	42	42	0	cutover bog and scrub; circling, lost behind trees/scrub	EF
SH194	VP5	29/09/2022	14:45	Sparrowhawk	2	82	0	2	2	0	heath and scrub; circling, interacting, dropped below tree/scrub line	EF

Vantage Point Surveys (Non-Flight)							
Map Ref.	VP	Date	Time	Species	Number	Habitat and activity	Surveyor
SH111	VP14	16/09/2020	06:38	Sparrowhawk	1	cutover bog and mixed broadleaved/conifer woodland; perched in pine tree, male	DM
SH135	VP14	17/05/2021	09:20	Sparrowhawk	1	immature woodland; male calling in tress	KB
SH195	VP1	20/10/2021	09:49	Sparrowhawk	1	mixed broadleaved/conifer woodland; calling, heard calling, not seen	JM
SH196	VP4	27/07/2022	16:00	Sparrowhawk	1	cutover bog and scrub; perched, perched on mast. interaction with id 3.	EF

Breeding Walkover Surveys							
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor	
SH001	28/04/2020	11:39	Sparrowhawk	1	bog woodland; initially fairly low, circled up very high then fast stoop	PT	
SH002	11/05/2020	18:58	Sparrowhawk	1	cutover bog; flying very low across heather, away from birch copse where possible nest present.	PT	
SH003	20/06/2020	11:01	Sparrowhawk	1	bog woodland, immature woodland and improved agricultural grassland; commuting flight, with large prey item, dropped near (in to?) large broadleaf trees	PT	
SH004	20/06/2020	11:09	Sparrowhawk	1	treelines and improved agricultural grassland; circled up before direct flight, apparently still with prey but smaller, likely heading for nest (in conifer plantation?) after preparing prey item	PT	
SH005	24/06/2020	12:14	Sparrowhawk	1	cutover bog and bog woodland; hunting, very low, landed briefly on edge of wood	PT	
SH006	25/06/2020	08:55	Sparrowhawk	1	bog woodland and conifer plantation; direct flight, with prey	PT	
SH007	25/06/2020	10:59	Sparrowhawk	1	cutover bog; low short flight	PT	
SH008	01/07/2020	12:54	Sparrowhawk	1	cutover bog and scattered tress and parkland; flying, c.25 metres then circled up high	PT	
SH009	01/07/2020	13:04	Sparrowhawk	1	scattered tress and parkland, cutover bog and raised bog, chasing mistle thrush, brief view	PT	
SH010	02/07/2020	12:34	Sparrowhawk	1	cutover bog; low flight	PT	

Breeding Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SH011	07/04/2021	13:15	Sparrowhawk	1	cutover bog and mixed broadleaved woodland; soaring (suitable nesting habitat; possible breeder)	DW
SH012	08/04/2021	14:45	Sparrowhawk	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
SH013	13/04/2021	08:40	Sparrowhawk	1	cutover bog and hedgerows; flying low into trees (suitable nesting habitat; possible breeder)	DW
SH014	13/04/2021	09:51	Sparrowhawk	1	improved agricultural grassland and conifer plantation; soaring (suitable nesting habitat; possible breeder)	DW
SH015	14/04/2021	12:11	Sparrowhawk	1	cutover bog; low over bog then soaring (suitable nesting habitat; possible breeder)	DW
SH016	06/05/2021	14:45	Sparrowhawk	1	improved agricultural grassland; soaring (suitable nesting habitat; possible breeder)	DW
SH017	07/05/2021	11:00	Sparrowhawk	1	scrub; travelling (suitable nesting habitat; possible breeder)	DW
SH018	07/05/2021	13:53	Sparrowhawk	1	cutover bog and mixed broadleaved woodland; travelling (suitable nesting habitat; possible breeder)	DW
SH019	07/05/2021	16:43	Sparrowhawk	1	mixed broadleaved woodland; travelling (suitable nesting habitat; possible breeder)	DW
SH020	18/05/2021	14:53	Sparrowhawk	1	improved agricultural grassland and scrub; soaring (suitable nesting habitat; possible breeder)	DW
SH021	09/06/2021	15:07	Sparrowhawk	1	upland blanket bog; soaring and circling (suitable nesting habitat; possible breeder)	DW
SH022	02/07/2021	13:37	Sparrowhawk	1	cutover bog; circling/soaring (suitable nesting habitat; possible breeder)	DW
SH023	29/04/2022	15:57	Sparrowhawk	1	cutover bog; circling/soaring, male (suitable nesting habitat; possible breeder)	NM
SH024	26/05/2022	09:17	Sparrowhawk	1	conifer plantation: calling, adult heard calling in wooded area (suitable nesting habitat; possible breeder)	NM

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
SH001	RVP4	29/04/2020	13:55	Sparrowhawk	1	improved agricultural grassland, soaring high, male		ED
SH002	RVP8	19/05/2020	15:55	Sparrowhawk	1	improved agricultural grassland, soaring, adult		ED
SH003	RVP5	21/05/2020	15:35	Sparrowhawk	1	improved agricultural grassland, in flight, female		ED
SH004	T1	11/06/2020	09:02	Sparrowhawk	1	mixed broadleaved/conifer woodland, carrying prey into nest site, circled over woodland before dropping down into wood		PM
SH005	T1	11/06/2020	10:32	Sparrowhawk	1	conifer plantation and mixed broadleaved/conifer woodland, travelling		PM
SH006	T1	11/06/2020	10:57	Sparrowhawk	1	cutover bog, travelling		PM
SH007	T6	16/06/2020	13:21	Sparrowhawk	1	improved agricultural grassland, travelling		PM
SH008	T8	23/06/2020	12:54	Sparrowhawk	1	mixed broadleaved/conifer woodland, carrying food into woods, flying low over wood, dropped out of view. nest in woods but not located		PM
SH009	Transect 5	20/04/2021	16:34	Sparrowhawk	1	improved agricultural grassland, hedgerows and mixed conifer woodland, foraging	suitable nesting habitat; possible breeder	KB
SH010	BRVP2	11/05/2021	16:16	Sparrowhawk	1	conifer plantation, foraging, emerged from trees flapping, being mobbed by passerines	suitable nesting habitat; possible breeder	KB
SH011	BRVP2	06/07/2021	13:03	Sparrowhawk	1	conifer plantation and improved agricultural grassland, foraging	suitable nesting habitat; possible breeder	KB
SH012	Transect 4	07/07/2021	15:55	Sparrowhawk	1	improved agricultural grassland, foraging - mobbed by l. pair	suitable nesting habitat; possible breeder	KB

Breeding Raptor Surveys								
Map Ref.	BRVP	Date	Time	Species	Number	Habitat and activity	Breeding status	Surveyor
SH013	RVP1	14/04/2022	11:11	Sparrowhawk	1	improved agricultural grassland and mixed broadleaved/conifer woodland, travelling	suitable nesting habitat; possible breeder	KS
SH014	RVP1	14/04/2022	11:22	Sparrowhawk	1	improved agricultural grassland and mixed broadleaved/conifer woodland, circling	suitable nesting habitat; possible breeder	KS
SH015	RVP6	29/05/2022	15:35	Sparrowhawk	1	semi-natural grassland and mixed broadleaved/conifer woodland, flew low into trees		EF
SH016	RVP2	17/06/2022	12:27	Sparrowhawk	1	improved agricultural grassland and hedgerows, travelling, male	suitable nesting habitat; possible breeder	KS
SH017	RVP2	15/07/2022	09:24	Sparrowhawk	1	mixed broadleaved/conifer woodland and improved agricultural grassland, travelling	suitable nesting habitat; possible breeder	KS

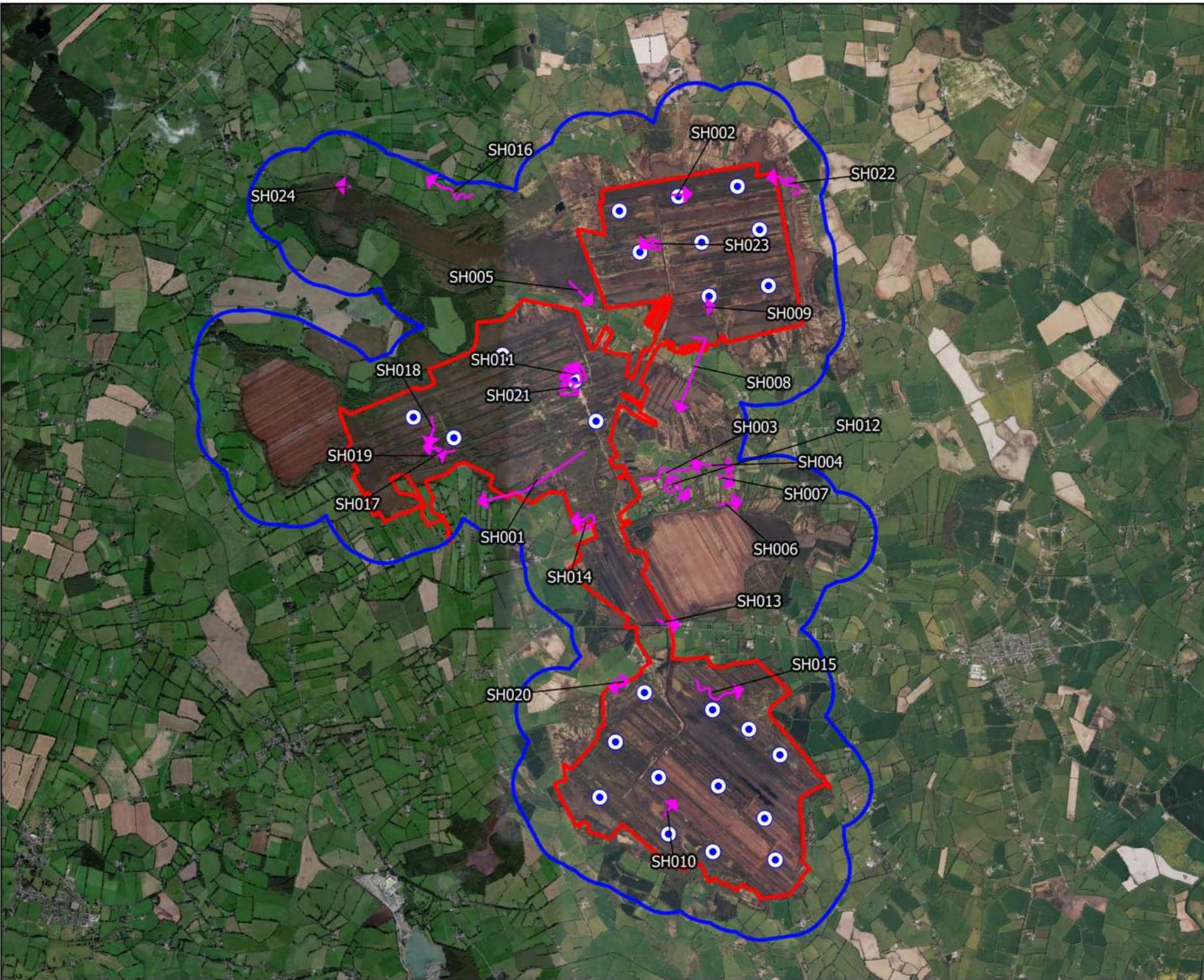
Winter Walkover Surveys						
Map Ref.	Date	Time	Species	Number	Habitat and activity	Surveyor
SH004	14/01/2021	10:58	Sparrowhawk	1	mixed broadleaved woodland and scrub, travelling through birch trees, male	DW
SH005	26/02/2021	08:18	Sparrowhawk	1	cutover bog and bog woodland; male	PT
SH006	26/02/2021	09:01	Sparrowhawk	2	conifer plantation; circling, display, pair	PT
SH007	29/03/2021	15:24	Sparrowhawk	1	bogs and highly modified/non-native woodland; hunting,	AR
SH008	30/03/2021	09:01	Sparrowhawk	1	bogs and highly modified/non-native woodland; hunting, female	AR
SH009	30/03/2021	16:37	Sparrowhawk	1	bogs; hunting, female	AR
SH010	18/03/2022	17:49	Sparrowhawk	1	cutover bog; flying,	NM

Connectivity Vantage Point Surveys								
Map Ref.	CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
SH001	CMVP1	01/12/2020	08:49	Sparrowhawk	1	5	cutover bog and scrub; foraging	KB
SH002	CMVP2	22/12/2020	15:48	Sparrowhawk	1	8	improved agricultural grassland and hedgerows, travelling and foraging	KB
SH003	CMVP2	14/01/2021	09:04	Sparrowhawk	1	8	improved agricultural grassland; foraging	KB
SH004	CMVP2	14/01/2021	10:13	Sparrowhawk	1	5	improved agricultural grassland; being mobbed by HC	KB
SH005	CMVP1	24/02/2021	07:52	Sparrowhawk	1	50	cutover bog and mixed broadleaved/conifer woodland; hunting, female	DM
SH006	CMVP4	25/03/2021	17:05	Sparrowhawk	1	30	improved agricultural grassland; hunting, male	DM
SH007	CMVP5	11/10/2021	16:39	Sparrowhawk	1	35	treelines, improved agricultural grassland and canals, flying, female	TS

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SH001	Vantage Point Survey, between VP5 and VP6, on way to VP6	29/04/2020		Sparrowhawk	1		PC
SH002	Breeding Woodcock Survey, T3	04/06/2020	22:25	Sparrowhawk	1	cutover bog and mixed broadleaved/conifer woodland; travelling	DM
SH003	Breeding Woodcock Survey, T7	16/06/2020	21:15	Sparrowhawk	1	cutover bog and mixed broadleaved/conifer woodland; hunting	DM
SH004	Waterbird Distribution Survey, Crownstown Lough	06/08/2020		Sparrowhawk	1		PW
SH005	Vantage Point Survey, VP1	29/08/2020		Sparrowhawk	1		PW
SH006	Waterbird Distribution Survey, hill of down royal canal (o10)	10/09/2020	10:43	Sparrowhawk	1		PW

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SH007	Waterbird Distribution Survey, hill of down royal canal (oo7)	10/09/2020	11:14	Sparrowhawk	1		PW
SH008	Vantage Point Survey, near VP13	11/09/2020	10:35	Sparrowhawk	1		PC
SH009	Waterbird Distribution Survey, hill of down royal canal (oo7)	24/09/2020	11:32	Sparrowhawk	1		PW
SH010	Waterbird Distribution Survey, Crowinstown lake	04/10/2020		Sparrowhawk	1	improved agricultural grassland and mixed broadleaved/conifer woodland; flew across lake into wood	DM
SH011	Vantage Point Survey, walking back from VP 15	12/11/2020		Sparrowhawk	1		KB
SH012	Winter Walkover Survey, section 1	16/02/2021	11:23	Sparrowhawk	1	cutover bog and scrub/transitional woodland; flew over road, male noted after survey end	PT
SH013	Waterbird Distribution Survey, Reynella Lake	19/02/2021	14:30	Sparrowhawk	1	mixed broadleaved/conifer woodland; circling	DM
SH014	Winter Walkover Survey, section 2	26/02/2021	15:58	Sparrowhawk	1	raised bog and treelines; low flight, seen during break	PT
SH015	Waterbird Distribution Survey, within lakeside native woodland	30/03/2021	11:30	Sparrowhawk	1	oak-birch-holly woodland; flying low and rapidly through woodland, almost a blur flashing through the trees	NM
SH016	Waterbird Distribution Survey, S of Crowinstown lake	29/10/2021	12:50	Sparrowhawk	1	improved agricultural grassland, feeding, male with prey	DM
SH017	Hen Harrier Roost Survey, HHVP4	17/11/2021	15:22	Sparrowhawk	1	bogs; travelling, female	JM
SH018	Hen Harrier Roost Survey, HHVP4	03/12/2021	09:04	Sparrowhawk	1	cutover bog, mixed broadleaved/conifer woodland and improved agricultural grassland, travelling, hunting flight	KS
SH019	Hen Harrier Roost Survey, HHVP1	13/12/2021	15:42	Sparrowhawk	1	cutover bog; travelling	KS
SH020	Waterbird Distribution Survey, Crowinstown lake	28/12/2021	11:15	Sparrowhawk	1	lakes and ponds, mixed broadleaved/conifer woodland and improved agricultural grassland, travelling	DM
SH021	Hen Harrier Roost Survey, HHVP3	28/01/2022	16:56	Sparrowhawk	1	cutover bog; in flight, flew over bog along treeline, rose up over treeline and lost from view	IH
SH022	Waterbird Distribution Survey, Lough Analla	08/02/2022	11:37	Sparrowhawk	1	mixed broadleaved/conifer woodland; flushed	KS

Incidental Observations							
Map Ref.	Location	Date	Time	Species	Number	Habitat and activity	Surveyor
SH023	Wintering Golden Plover Survey, and loch ban	09/02/2022	13:13	Sparrowhawk	1	improved agricultural grassland, travelling	JM
SH024	Vantage Point Survey, rear of VPI viewshed	15/02/2022	09:45	Sparrowhawk	1	bogs and conifer plantation; travelling	JM
SH025	Hen Harrier Roost Survey, HHVP4	10/03/2022	17:54	Sparrowhawk	1	cutover bog and conifer plantation; travelling	NM
SH026	Waterbird Distribution Survey, Riverstown river	14/03/2022	08:00	Sparrowhawk	1	improved agricultural grassland; hunting	DM
SH027	Hen Harrier Roost Survey, HHVP3	14/03/2022	17:12	Sparrowhawk	1	raised bog, travelling	NM
SH028	Hen Harrier Roost Survey, HHVP3	14/03/2022	18:12	Sparrowhawk	1	raised bog, travelling	NM
SH029	Waterbird Distribution Survey, Annalla lakes	09/05/2022	17:00	Sparrowhawk	1	lakes and ponds and mixed broadleaved/conifer woodland; hunting, male	DM
SH030	Breeding Woodcock Survey, WKT11	17/05/2022	22:03	Sparrowhawk	1	mixed broadleaved/conifer woodland and cutover bog, travelling	KS
SH031	Waterbird Distribution Survey, Crowinstown lake	07/09/2022	12:00	Sparrowhawk	1	lakes and ponds and mixed broadleaved/conifer woodland; hunting	DM
SH032	Waterbird Distribution Survey, Reynella Lake	26/09/2022	14:30	Sparrowhawk	1	mixed broadleaved/conifer woodland; hunting, male	DM
SH033	Vantage Point Survey, VP10	27/09/2022	16:58	Sparrowhawk	1	conifer plantation; travelling	NM



Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline



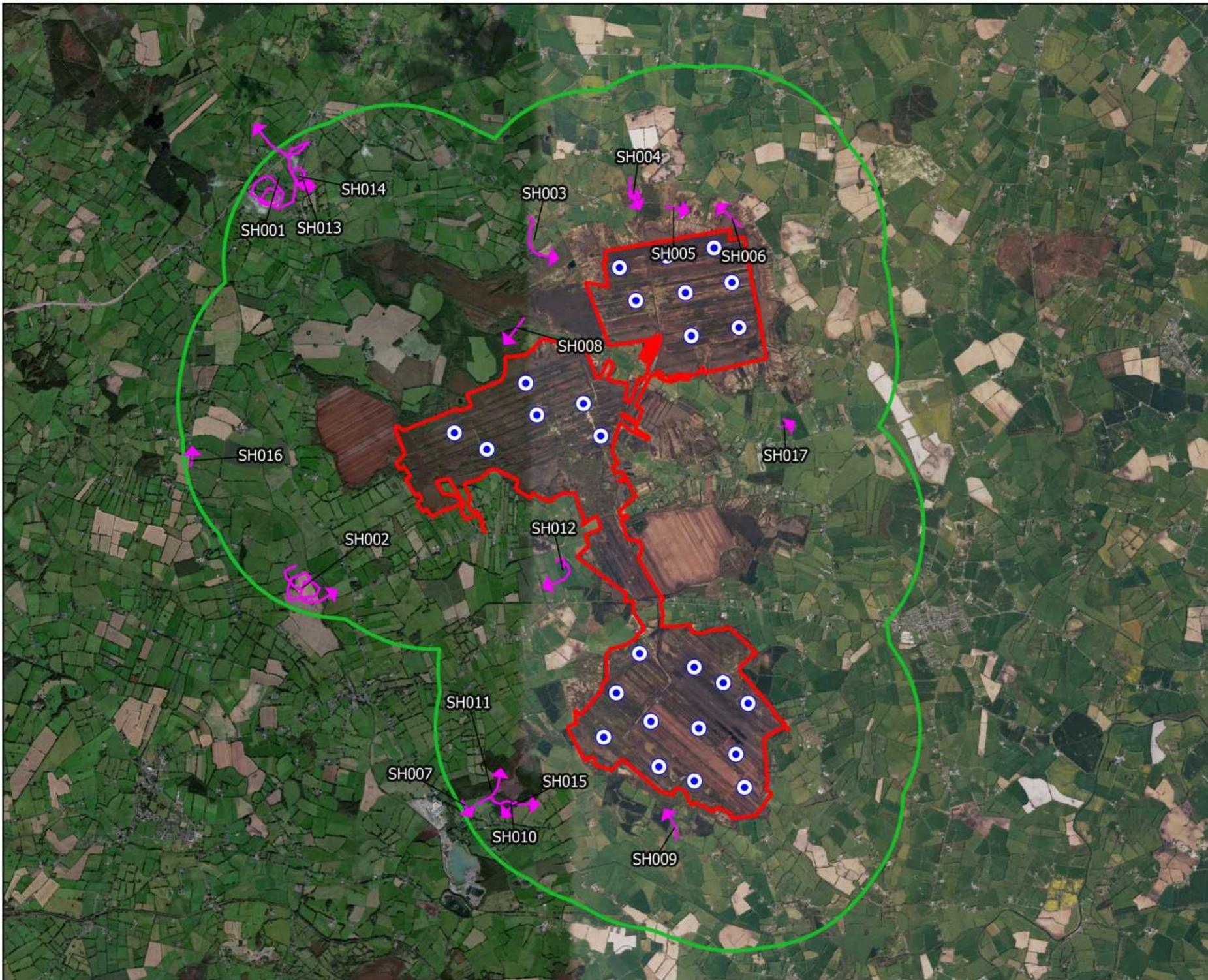
Drawing Title
**Sparrowhawk Observations
 Breeding Walkover Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.310
Scale 1:60000	Date 14.02.23

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Map Legend

- Wind Farm Site
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Drawing Title

Sparrowhawk Observations
Breeding Raptor Surveys

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P. Cregg

Project No.

191137

Drawing No.

Fig. 7.4.3

Scale

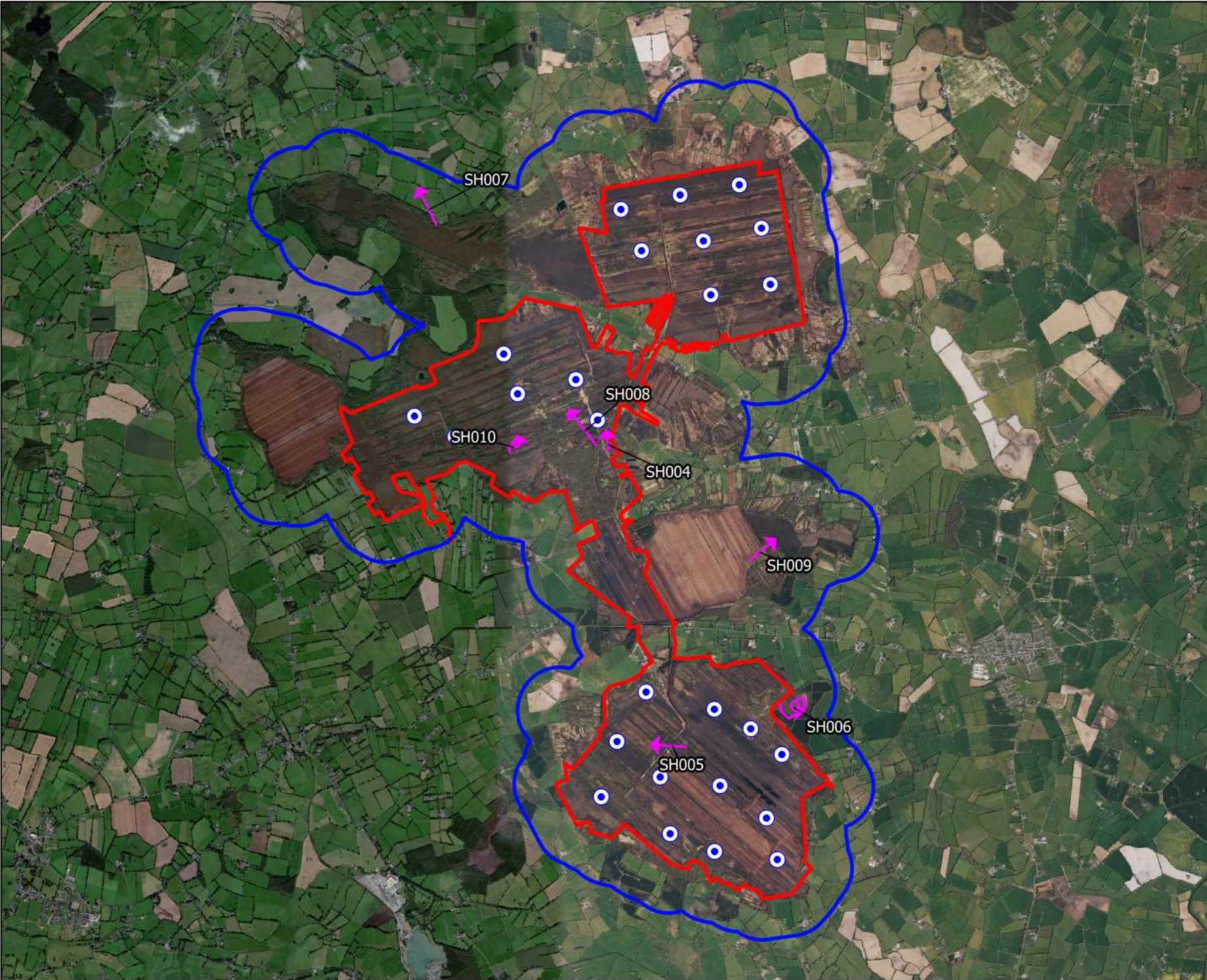
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Date

14.02.23



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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Survey Area
- Flightline



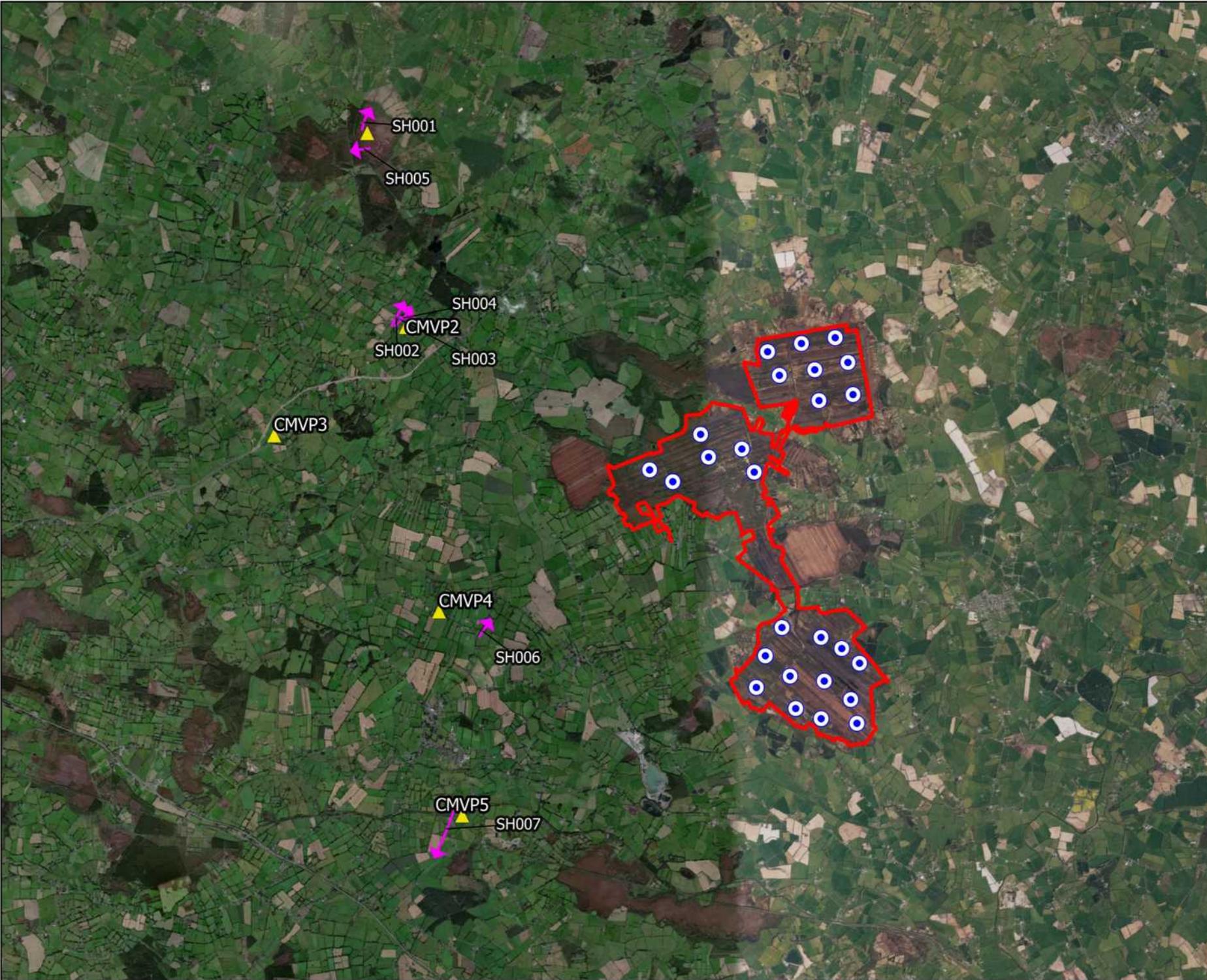
Drawing Title
**Sparrowhawk Observations
 Winter Walkover Surveys**

Project Title
Ballivor Wind Farm

Drawn By P. Manley	Checked By P. Cregg
Project No. 191137	Drawing No. Fig. 7.7.10
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- ▲ Connectivity Vantage Point Survey Location
- Flightline



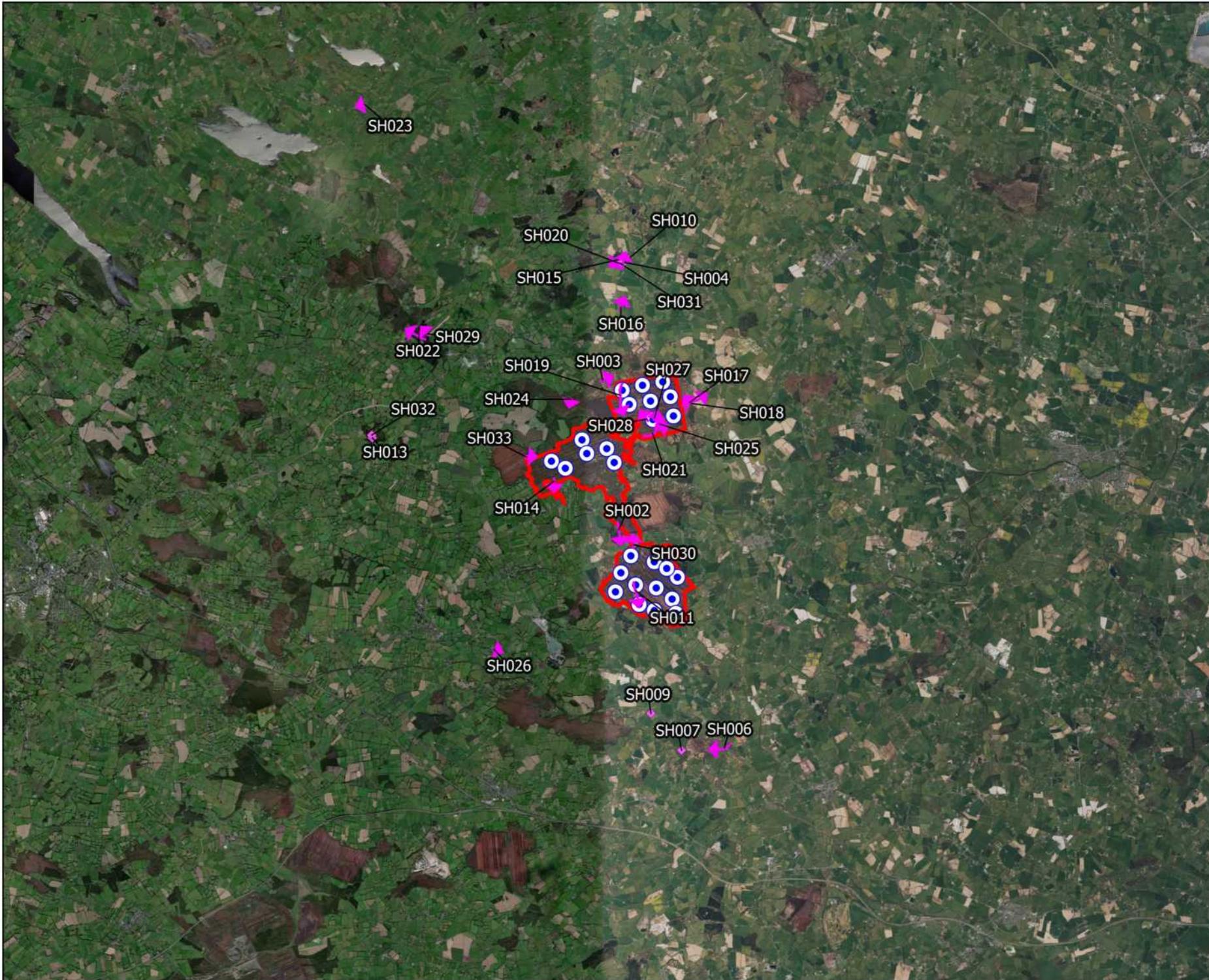
Drawing Title
**Sparrowhawk Observations
Connectivity VP Surveys**

Project Title
Ballivor Wind Farm

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Project No. 191137	Drawing No. Fig. 7.9.12
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Map Legend

- Wind Farm Site
- Proposed Turbine Layout
- Flightline
- ◆ Observation



Drawing Title

Sparrowhawk
Incidental Observations

Project Title

Ballivor Wind Farm

Drawn By

P. Manley

Checked By

P. Cregg

Project No.

191137

Drawing No.

Fig. 7.12.15

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1:175000

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Table 20 Meadow Pipit Survey Data

Vantage Point Surveys											
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
VP13	03/06/2020		Meadow Pipit							cutover bog and mixed broadleaved/conifer woodland; on site	DM
VP12	04/06/2020		Meadow Pipit							cutover bog and mixed broadleaved/conifer woodland; on site	DM
VP11	05/06/2020		Meadow Pipit							cutover bog and mixed broadleaved/conifer woodland; on site	DM
VP11	05/06/2020		Meadow Pipit							cutover bog and mixed broadleaved/conifer woodland; on site	DM
VP14	15/06/2020		Meadow Pipit							cutover bog and mixed broadleaved/conifer woodland; on site	DM
VP15	16/06/2020		Meadow Pipit							cutover bog and mixed broadleaved/conifer woodland; on site	DM
VP16	17/06/2020		Meadow Pipit							cutover bog and mixed broadleaved/conifer woodland; on site	DM
VP9	22/06/2020		Meadow Pipit							cutover bog and mixed broadleaved/conifer woodland; on site	DM
VP10	08/09/2020		Meadow Pipit	1							DM
VP11	09/09/2020		Meadow Pipit	16							DM
VP8	11/09/2020		Meadow Pipit	100							DM
VP1	16/06/2021	12:30	Meadow Pipit	1	5	5	0	0	0	lowland blanket bog; flying, short low flight	SI
VP1	16/06/2021	12:42	Meadow Pipit	1	30	30	0	0	0	lowland blanket bog; display flight, singing male	SI
VP1	16/06/2021	14:10	Meadow Pipit	1	35	35	0	0	0	lowland blanket bog; display flight, singing male	SI
VP1	16/06/2021	14:22	Meadow Pipit	1	20	20	0	0	0	lowland blanket bog; display flight, singing male	SI
VP1	16/06/2021	14:26	Meadow Pipit	1	10	10	0	0	0	lowland blanket bog; display flight, singing male	SI

Vantage Point Surveys											
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
VP1	16/06/2021	16:13	Meadow Pipit	1	25	25	0	0	0	lowland blanket bog; display flight, singing male	SI
VP1	16/06/2021	16:19	Meadow Pipit	1	30	30	0	0	0	lowland blanket bog; display flight, singing male	SI
VP1	16/06/2021	17:18	Meadow Pipit	1	20	20	0	0	0	lowland blanket bog; display flight, singing male	SI
VP2	17/06/2021	09:02	Meadow Pipit	1	10	10	0	0	0	lowland blanket bog; flying, short low flight above heather	SI
VP2	17/06/2021	09:17	Meadow Pipit	1	25	25	0	0	0	lowland blanket bog; display flight, display flight	SI
VP2	17/06/2021	09:30	Meadow Pipit	1	25	25	0	0	0	lowland blanket bog; display flight, display flight	SI
VP2	17/06/2021	11:07	Meadow Pipit	1	10	10	0	0	0	lowland blanket bog; display flight, display flight	SI
VP2	17/06/2021	12:41	Meadow Pipit	1	15	15	0	0	0	lowland blanket bog; display flight, display flight	SI
VP2	17/06/2021	13:12	Meadow Pipit	1	20	20	0	0	0	lowland blanket bog; display flight, display flight	SI
VP2	17/06/2021	14:45	Meadow Pipit	1	30	30	0	0	0	lowland blanket bog; display flight, display flight	SI
VP3	17/06/2021	16:23	Meadow Pipit	1	10	10	0	0	0	lowland blanket bog; display flight, display flight	SI
VP3	17/06/2021	16:25	Meadow Pipit	1	10	10	0	0	0	lowland blanket bog; display flight, display flight	SI
VP3	17/06/2021	17:45	Meadow Pipit	1	17	17	0	0	0	lowland blanket bog; display flight, display flight	SI
VP3	17/06/2021	18:05	Meadow Pipit	1	15	15	0	0	0	lowland blanket bog; display flight, display flight	SI
VP4	22/06/2021	17:02	Meadow Pipit	2	30	30	0	0	0	scrub and cutover bog; display flight, display flight	SI
VP4	22/06/2021	17:24	Meadow Pipit	2	15	15	0	0	0	scrub and cutover bog; display flight, display flight	SI

Vantage Point Surveys											
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
VP4	22/06/2021	18:05	Meadow Pipit	3	5	5	0	0	0	scrub and cutover bog; harassing SH, defensive behaviour, alarming in response to SH	SI
VP4	23/06/2021	09:05	Meadow Pipit	1	10	10	0	0	0	scrub and cutover bog; flying, short flight near VP	SI
VP4	23/06/2021	09:20	Meadow Pipit	1	10	10	0	0	0	scrub and cutover bog; flying, short flight near VP	SI
VP4	23/06/2021	09:30	Meadow Pipit	1	5	5	0	0	0	scrub and cutover bog; flying, short flight near VP	SI
VP4	23/06/2021	10:02	Meadow Pipit	1	5	5	0	0	0	scrub and cutover bog; flying, short flight near VP	SI
VP4	23/06/2021	10:21	Meadow Pipit	2	10	10	0	0	0	scrub and cutover bog; flying, short flight near VP	SI
VP4	23/06/2021	11:17	Meadow Pipit	2	10	10	0	0	0	scrub and cutover bog; flying, short flight near VP	SI
VP4	23/06/2021	11:51	Meadow Pipit	1	10	10	0	0	0	scrub and cutover bog; flying, short flight near VP	SI
VP4	23/06/2021	11:55	Meadow Pipit	1	10	10	0	0	0	scrub and cutover bog; flying with food, short flight near VP and perched on tussock with food	SI
VP3	23/06/2021	13:32	Meadow Pipit	1	7	7	0	0	0	cutover bog; flying with food, adult carrying food	SI
VP3	23/06/2021	13:34	Meadow Pipit	1	10	10	0	0	0	cutover bog; display flight, display flight	SI
VP6	24/06/2021	13:08	Meadow Pipit	1	5	5	0	0	0	cutover bog and scrub; flying, short flight	SI
VP6	24/06/2021	14:40	Meadow Pipit	1	10	10	0	0	0	cutover bog and scrub; display flight, display flight	SI
VP6	24/06/2021	16:51	Meadow Pipit	1	10	10	0	0	0	cutover bog and scrub; flying, short flight	SI
VP11	12/07/2021	19:37	Meadow Pipit	1	40	0	40	0	0	bogs; display flight	AR
VP11	12/07/2021	20:01	Meadow Pipit	2	20	20	0	0	0	bogs; flying	AR
VP11	12/07/2021	20:17	Meadow Pipit	1	30	0	0	30	0	bogs; display flight	AR

Vantage Point Surveys											
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
VP11	12/07/2021	21:17	Meadow Pipit	1	40	40	0	0	0	bogs; display flight	AR
VP11	12/07/2021	21:56	Meadow Pipit	1	15	0	15	0	0	bogs and highly modified/non-native woodland; flying	AR
VP15	13/07/2021	10:01	Meadow Pipit	3	10	10	0	0	0	cutover bog; flying/feeding	AR
VP15	13/07/2021	10:20	Meadow Pipit	1	30	30	0	0	0	scrub; display flight	AR
VP15	13/07/2021	10:27	Meadow Pipit	2	20	20	0	0	0	cutover bog; flying	AR
VP15	13/07/2021	10:36	Meadow Pipit	2	20	20	0	0	0	cutover bog; flying	AR
VP15	13/07/2021	10:41	Meadow Pipit	1	10	10	0	0	0	cutover bog; display flight	AR
VP15	13/07/2021	14:42	Meadow Pipit	8	80	80	0	0	0	cutover bog; flying	AR
VP15	13/07/2021	20:00	Meadow Pipit	1	30	0	30	0	0	cutover bog; display flight	AR
VP15	13/07/2021	20:15	Meadow Pipit	1	10	0	10	0	0	cutover bog; display flight	AR
VP15	13/07/2021	20:37	Meadow Pipit	3	30	30	0	0	0	cutover bog; flying	AR
VP15	13/07/2021	20:43	Meadow Pipit	5	60	60	0	0	0	cutover bog and highly modified/non-native woodland; flying	AR
VP15	13/07/2021	21:01	Meadow Pipit	7	20	20	0	0	0	cutover bog; flying	AR
VP14	14/07/2021	12:10	Meadow Pipit	1	20	20	0	0	0	bogs; display flight	AR
VP14	14/07/2021	12:17	Meadow Pipit	1	10	10	0	0	0	bogs; flying	AR
VP14	14/07/2021	12:37	Meadow Pipit	2	30	0	30	0	0	bogs; flying	AR
VP16	14/07/2021	19:30	Meadow Pipit	2	20	20	0	0	0	cutover bog; flying	AR
VP16	14/07/2021	19:42	Meadow Pipit	1	10	0	10	0	0	cutover bog; display flight	AR
VP16	14/07/2021	20:10	Meadow Pipit	9	40	0	40	0	0	cutover bog; flying	AR
VP16	14/07/2021	20:37	Meadow Pipit	4	20	20	0	0	0	cutover bog; flying	AR
VP16	14/07/2021	20:41	Meadow Pipit	3	30	0	30	0	0	cutover bog; flying	AR
VP16	14/07/2021	20:49	Meadow Pipit	1	10	10	0	0	0	cutover bog; display flight	AR
VP16	15/07/2021	08:10	Meadow Pipit	3	10	10	0	0	0	cutover bog; flying	AR
VP16	15/07/2021	08:21	Meadow Pipit	1	20	0	20	0	0	cutover bog; display flight	AR

Vantage Point Surveys											
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
VP16	15/07/2021	09:16	Meadow Pipit	3	30	0	30	0	0	highly modified/non-native woodland and scrub; flying	AR
VP16	15/07/2021	13:31	Meadow Pipit	4	30	30	0	0	0	bogs and scrub; travelling	AR
VP16	15/07/2021	14:05	Meadow Pipit	1	20	20	0	0	0	bogs; display flight	AR
VP16	15/07/2021	14:10	Meadow Pipit	1	20	20	0	0	0	bogs; display flight	AR
VP12	28/07/2021	13:09	Meadow Pipit	1	20	20	0	0	0	cutover bog; display flight	SJ
VP12	28/07/2021	13:14	Meadow Pipit	1	20	20	0	0	0	cutover bog; display flight	SJ
VP12	28/07/2021	14:16	Meadow Pipit	1	20	20	0	0	0	cutover bog; display flight	SJ
VP11	29/07/2021	09:22	Meadow Pipit	1	10	10	0	0	0	lowland blanket bog; short flight	SJ
VP11	29/07/2021	09:50	Meadow Pipit	1	10	10	0	0	0	lowland blanket bog; short flight	SJ
VP11	29/07/2021	10:32	Meadow Pipit	1	10	10	0	0	0	lowland blanket bog; short flight	SJ
VP11	29/07/2021	11:30	Meadow Pipit	4	20	20	0	0	0	lowland blanket bog; short flight	SJ
VP9	29/07/2021	14:16	Meadow Pipit	7	65	45	20	0	0	lowland blanket bog, cutover bog and scrub; flying and calling, flock of juveniles continuously flying, calling and interacting with each other.	SJ
VP13	31/07/2021	17:41	Meadow Pipit	1	10	10	0	0	0	cutover bog; flying, short flight	SJ
VP2	11/10/2021	09:00	Meadow Pipit	24	15	15	0	0	0	bogs; travelling	JM
VP2	11/10/2021	11:00	Meadow Pipit	18	12	12	0	0	0	bogs; travelling	JM
VP5	12/10/2021	11:50	Meadow Pipit	9	12	12	0	0	0	bogs; travelling	JM
VP3	13/10/2021	09:39	Meadow Pipit	30	24	24	0	0	0	bogs; travelling	JM
VP3	13/10/2021	13:00	Meadow Pipit	60	15	15	0	0	0	bogs; travelling	JM
VP4	14/10/2021	12:48	Meadow Pipit	10	10	10	0	0	0	bogs and scrub; travelling	JM
VP6	18/10/2021	10:50	Meadow Pipit	15	10	10	0	0	0	bogs: travelling, this is VP6	JM
VP6	18/10/2021	14:16	Meadow Pipit	21	15	15	0	0	0	bogs: travelling, this is VP6 not VP1	JM
VP1	20/10/2021	09:54	Meadow Pipit	25	14	14	0	0	0	bogs; travelling	JM

Vantage Point Surveys											
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
VP1	20/10/2021	10:05	Meadow Pipit	5	10	10	0	0	0	bogs; travelling	JM
VP1	20/10/2021	13:27	Meadow Pipit	45	10	10	0	0	0	bogs; travelling	JM
VP8	21/10/2021	09:53	Meadow Pipit	19	20	20	0	0	0	bogs and scrub; travelling	JM
VP8	21/10/2021	13:28	Meadow Pipit	38	16	16	0	0	0	bogs; travelling	JM
VP7	22/10/2021	10:00	Meadow Pipit	9	10	10	0	0	0	bogs; travelling	JM
VP7	22/10/2021	13:27	Meadow Pipit	10	10	10	0	0	0	bogs; travelling	JM
VP9	26/10/2021	10:22	Meadow Pipit	27	19	19	0	0	0	bogs; travelling	JM
VP9	26/10/2021	14:04	Meadow Pipit	9	10	10	0	0	0	bogs; travelling	JM
VP10	28/10/2021	10:50	Meadow Pipit	1	6	6	0	0	0	bogs; travelling	JM
VP10	28/10/2021	14:11	Meadow Pipit	14	9	9	0	0	0	bogs; travelling	JM
VP11	29/10/2021	10:20	Meadow Pipit	13	10	10	0	0	0	bogs; travelling	JM
VP11	29/10/2021	13:51	Meadow Pipit	24	10	10	0	0	0	bogs; travelling	JM
VP2	02/11/2021	14:17	Meadow Pipit	28	10	10	0	10	0	bogs; travelling	JM
VP2	02/11/2021	17:28	Meadow Pipit	55	10	10	0	10	0	bogs; travelling	JM
VP5	03/11/2021	14:17	Meadow Pipit	12	15	15	0	15	0	bogs and bog woodland; travelling	JM
VP5	03/11/2021	17:36	Meadow Pipit	5	13	13	0	13	0	bogs; travelling	JM
VP6	04/11/2021	14:09	Meadow Pipit	17	18	10	8	18	0	bogs; travelling	JM
VP6	04/11/2021	17:45	Meadow Pipit	25	20	15	5	20	0	bogs; travelling	JM
VP3	08/11/2021	14:11	Meadow Pipit	51	20	20	0	20	0	bogs; travelling	JM
VP3	08/11/2021	17:41	Meadow Pipit	24	17	17	0	17	0	bogs; travelling	JM
VP1	09/11/2021	14:09	Meadow Pipit	65	15	15	0	15	0	bogs; travelling	JM
VP1	09/11/2021	16:45	Meadow Pipit	48	25	25	0	25	0	bogs; travelling	JM
VP4	10/11/2021	12:27	Meadow Pipit	1	20	20	0	20	0	bogs; travelling	JM
VP4	10/11/2021	16:45	Meadow Pipit	21	40	40	0	40	0	bogs and scrub; travelling	JM
VP2	01/12/2021	10:10	Meadow Pipit	2	22	12	10	22	0	bogs; travelling	JM

Vantage Point Surveys											
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
VP5	02/12/2021	08:47	Meadow Pipit	2	15	15	0	15	0	cutover bog; flying, calling	TS
VP3	02/12/2021	10:18	Meadow Pipit	5	12	12	0	12	0	bogs; travelling	JM
VP3	02/12/2021	13:30	Meadow Pipit	10	30	30	0	30	0	bogs; travelling	JM
VP4	03/12/2021	10:08	Meadow Pipit	9	21	15	6	21	0	bogs; travelling	JM
VP4	03/12/2021	13:40	Meadow Pipit	5	14	14	0	14	0	bogs; travelling	JM
VP1	06/12/2021	10:13	Meadow Pipit	6	8	8	0	8	0	bogs; travelling	JM
VP1	06/12/2021	13:45	Meadow Pipit	4	7	7	0	7	0	bogs; travelling	JM
VP6	11/12/2021	12:29	Meadow Pipit	3	20	20	0	20	0	cutover bog; flying, calling, seen few times 50m S of VP	TS
VP7	12/12/2021	12:22	Meadow Pipit	3	15	15	0	15	0	cutover bog; flying, calling, seen within 50m of VP	TS
VP8	15/12/2021	08:33	Meadow Pipit	2	20	20	0	20	0	cutover bog and scrub; flying	TS
VP9	16/12/2021	11:35	Meadow Pipit	4	20	20	0	20	0	cutover bog; flying	TS
VP15	17/12/2021	13:42	Meadow Pipit	3	10	10	0	10	0	dry calcareous and neutral grassland and cutover bog; foraging	KS
VP3	05/01/2022	13:50	Meadow Pipit	2	10	10	0	10	0	bogs; travelling	JM
VP3	05/01/2022	16:30	Meadow Pipit	2	12	12	0	12	0	bogs; travelling	JM
VP2	06/01/2022	13:53	Meadow Pipit	4	25	25	0	25	0	bogs; travelling	JM
VP2	06/01/2022	16:35	Meadow Pipit	1	10	10	0	10	0	bogs; travelling	JM
VP1	07/01/2022	13:45	Meadow Pipit	3	10	10	0	10	0	bogs; travelling	JM
VP1	07/01/2022	16:30	Meadow Pipit	6	10	10	0	10	0	bogs; travelling	JM
VP4	10/01/2022	13:30	Meadow Pipit	3	10	10	0	10	0	bogs and scrub; travelling	JM
VP4	10/01/2022	16:04	Meadow Pipit	1	6	6	0	6	0	bogs; travelling	JM
VP5	28/01/2022	14:20	Meadow Pipit	4	5	5	0	5	0	bogs; travelling	JM
VP2	02/02/2022	09:59	Meadow Pipit	4	11	11	0	11	0	bogs; travelling	JM
VP2	02/02/2022	13:00	Meadow Pipit	23	10	10	0	10	0	bogs; travelling	JM

Vantage Point Surveys											
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
VP3	11/02/2022	09:23	Meadow Pipit	4	10	10	0	10	0	bogs; travelling	JM
VP3	11/02/2022	13:05	Meadow Pipit	3	11	11	0	11	0	bogs; travelling	JM
VP1	15/02/2022	09:30	Meadow Pipit	7	10	10	0	10	0	bogs; travelling	JM
VP1	01/03/2022	15:08	Meadow Pipit	6	8	8	0	8	0	bogs; travelling	JM
VP1	01/03/2022	17:43	Meadow Pipit	2	8	8	0	8	0	bogs; travelling	JM
VP3	02/03/2022	15:09	Meadow Pipit	4	8	8	0	8	0	bogs; travelling	JM
VP3	02/03/2022	18:15	Meadow Pipit	5	20	20	0	20	0	bogs; travelling	JM
VP2	09/03/2022	15:40	Meadow Pipit	2	6	6	0	6	0	bogs; travelling	JM
VP2	09/03/2022	18:15	Meadow Pipit	4	7	7	0	7	0	bogs; travelling	JM
VP4	21/03/2022	13:42	Meadow Pipit	1	8	8	0	8	0	raised bog; flight	NM
VP4	21/03/2022	16:41	Meadow Pipit	2	12	12	0	12	0	cutover bog; flying	NM
VP15	29/03/2022	15:24	Meadow Pipit	1	30	30	0	30	0	cutover bog; flying, above heather, calling	KS
VP4	04/04/2022	08:49	Meadow Pipit	6	10	10	0	10	0	bogs; travelling	JM
VP6	04/04/2022	12:10	Meadow Pipit	9	16	10	6	16	0	bogs; travelling	JM
VP5	05/04/2022	09:03	Meadow Pipit	3	5	5	0	5	0	bogs; travelling	JM
VP3	05/04/2022	12:11	Meadow Pipit	12	5	5	0	5	0	bogs; travelling	JM
VP8	06/04/2022	08:00	Meadow Pipit	1	7	7	0	7	0	scrub and bogs; travelling	JM
VP9	07/04/2022	08:35	Meadow Pipit	1	3	3	0	3	0	bogs; short flight/calling	JM
VP10	07/04/2022	12:00	Meadow Pipit	10	16	16	0	16	0	bogs; travelling, some parachuting breeding behaviour	JM
VP11	08/04/2022	12:23	Meadow Pipit	15	20	20	0	20	0	bogs; travelling/calling	JM
VP13	11/04/2022	08:39	Meadow Pipit	5	6	6	0	6	0	bogs; travelling	JM
VP14	11/04/2022	12:00	Meadow Pipit	8	15	15	0	15	0	bogs; travelling/calling	JM
VP1	12/04/2022	06:04	Meadow Pipit	1	26	4	22	26	0	cutover bog; display flight, none	NM
VP1	12/04/2022	08:01	Meadow Pipit	1	16	14	2	16	0	cutover bog; flushed flight, none	NM

Vantage Point Surveys											
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
VP2	12/04/2022	09:43	Meadow Pipit	1	6	6	0	6	0	cutover bog; display flight, none	NM
VP2	12/04/2022	10:00	Meadow Pipit	1	8	2	6	8	0	cutover bog; travelling, none	NM
VP2	12/04/2022	10:05	Meadow Pipit	2	6	6	0	6	0	cutover bog; territorial conflict, none	NM
VP2	12/04/2022	10:10	Meadow Pipit	1	6	6	0	6	0	cutover bog; displaying flight, none	NM
VP2	12/04/2022	10:28	Meadow Pipit	2	14	14	0	14	0	cutover bog; territorial conflict, none	NM
VP16	04/05/2022	15:34	Meadow Pipit	2	20	20	0	20	0	cutover bog; display flight	KS
VP5	10/05/2022	19:55	Meadow Pipit	1	10	10	0	10	0	heath; display flight	EF
VP13	10/05/2022	20:00	Meadow Pipit	1	10	10	0	10	0	cutover bog; display	KS
VP1	11/05/2022	04:51	Meadow Pipit	2	18	18	0	18	0	cutover bog; calling/display flight	NM
VP1	11/05/2022	05:32	Meadow Pipit	3	8	8	0	8	0	cutover bog; travelling	NM
VP1	11/05/2022	06:40	Meadow Pipit	1	6	6	0	6	0	cutover bog; travelling	Nm
VP1	11/05/2022	06:58	Meadow Pipit	2	26	4	22	26	0	cutover bog; display flight	NM
VP1	11/05/2022	07:17	Meadow Pipit	1	14	14	0	14	0	cutover bog; travelling	NM
VP11	11/05/2022	17:50	Meadow Pipit	1	15	15	0	15	0	heath and cutover bog; display	KS
VP2	11/05/2022	19:22	Meadow Pipit	2	13	13	0	13	0	cutover bog; display flight	NM
VP2	11/05/2022	19:39	Meadow Pipit	2	16	16	0	16	0	cutover bog; display flight	NM
VP2	11/05/2022	19:42	Meadow Pipit	1	5	5	0	5	0	cutover bog; travelling	NM
VP2	11/05/2022	20:01	Meadow Pipit	1	13	13	0	13	0	cutover bog; travelling	NM
VP2	11/05/2022	20:28	Meadow Pipit	2	18	4	14	18	0	cutover bog; display flight/calling	NM
VP2	11/05/2022	21:11	Meadow Pipit	2	12	12	0	12	0	cutover bog; calling/travelling	NM
VP3	20/05/2022	20:13	Meadow Pipit	4	36	36	0	36	0	cutover bog; travelling, multiple pairs observed travelling/foraging	NM
VP3	20/05/2022	20:27	Meadow Pipit	1	6	6	0	6	0	cutover bog; foraging	NM
VP3	20/05/2022	20:49	Meadow Pipit	2	7	7	0	7	0	cutover bog; travelling	NM
VP3	20/05/2022	20:55	Meadow Pipit	1	24	24	0	24	0	cutover bog; travelling	NM

Vantage Point Surveys											
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
VP3	20/05/2022	21:00	Meadow Pipit	2	40	12	28	40	0	cutover bog; travelling	NM
VP10	01/06/2022	17:15	Meadow Pipit	1	10	10	0	10	0	cutover bog; foraging	KS
VP11	07/06/2022	17:05	Meadow Pipit	1	10	10	0	10	0	heath and scrub; flying/calling	EF
VP1	08/06/2022	18:53	Meadow Pipit	1	6	6	0	6	0	cutover bog and conifer plantation; travelling	NM
VP1	08/06/2022	18:58	Meadow Pipit	1	18	18	0	18	0	bogs; travelling	NM
VP1	08/06/2022	19:35	Meadow Pipit	1	30	26	4	30	0	bogs; travelling	NM
VP1	08/06/2022	19:57	Meadow Pipit	2	10	10	0	10	0	bogs; travelling	NM
VP1	08/06/2022	20:15	Meadow Pipit	1	29	29	0	29	0	cutover bog; foraging	NM
VP12	09/06/2022	17:30	Meadow Pipit	1	10	10	0	10	0	cutover bog and scrub; short flight	EF
VP13	13/06/2022	17:50	Meadow Pipit	1	10	10	0	10	0	cutover bog and scrub; flying	EF
VP4	13/06/2022	19:45	Meadow Pipit	1	10	10	0	10	0	cutover bog; foraging	NM
VP4	13/06/2022	19:49	Meadow Pipit	1	4	4	0	4	0	cutover bog and scrub; calling/travelling	NM
VP4	13/06/2022	19:59	Meadow Pipit	2	12	4	8	12	0	cutover bog; display flight	NM
VP4	13/06/2022	20:09	Meadow Pipit	1	17	13	4	17	0	cutover bog; travelling	NM
VP4	13/06/2022	20:19	Meadow Pipit	1	6	6	0	6	0	cutover bog; travelling	NM
VP4	13/06/2022	20:34	Meadow Pipit	1	24	2	22	24	0	cutover bog; display flight	NM
VP14	16/06/2022	19:00	Meadow Pipit	1	10	10	0	10	0	cutover bog and scrub; flying/landing	EF
VP16	26/06/2022	11:35	Meadow Pipit	1	11	11	0	11	0	cutover bog and scrub; flying/landed/calling	EF
VP15	26/06/2022	15:10	Meadow Pipit	1	6	6	0	6	0	cutover bog and scrub; flying/landed	EF
VP3	05/07/2022	15:40	Meadow Pipit	3	17	13	4	17	0	bogs; display flight/travelling	NM
VP3	05/07/2022	15:40	Meadow Pipit	3	17	13	4	17	0	bogs; display flight/travelling	NM
VP3	05/07/2022	16:10	Meadow Pipit	1	11	11	0	11	0	bogs; display flight	NM
VP3	05/07/2022	16:10	Meadow Pipit	1	11	11	0	11	0	bogs; display flight	NM
VP3	05/07/2022	16:18	Meadow Pipit	1	21	7	14	21	0	bogs; display flight	NM

Vantage Point Surveys											
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
VP3	05/07/2022	16:18	Meadow Pipit	1	21	7	14	21	0	bogs; display flight	NM
VP5	06/07/2022	13:16	Meadow Pipit	2	18	18	0	18	0	cutover bog; travelling/foraging	NM
VP5	06/07/2022	13:16	Meadow Pipit	2	18	18	0	18	0	cutover bog; travelling/foraging	NM
VP5	06/07/2022	13:19	Meadow Pipit	1	12	12	0	12	0	cutover bog; travelling	NM
VP5	06/07/2022	13:19	Meadow Pipit	1	12	12	0	12	0	cutover bog; travelling	NM
VP8	07/07/2022	13:10	Meadow Pipit	8	26	26	0	26	0	bogs; display flight/foraging	NM
VP8	07/07/2022	13:10	Meadow Pipit	8	26	26	0	26	0	bogs; display flight/foraging	NM
VP5	10/07/2022	12:04	Meadow Pipit	1	22	4	18	22	0	scrub and cutover bog; display flight	NM
VP5	13/07/2022	14:56	Meadow Pipit	1	26	5	21	26	0	cutover bog; display flight	NM
VP13	14/07/2022	12:01	Meadow Pipit	2	10	10	0	10	0	cutover bog; foraging	KS
VP12	14/07/2022	17:53	Meadow Pipit	2	20	20	0	20	0	cutover bog; display flight	NM
VP12	14/07/2022	18:14	Meadow Pipit	1	36	36	0	36	0	cutover bog; travelling	NM
VP12	14/07/2022	18:18	Meadow Pipit	2	12	2	10	12	0	cutover bog; travelling	NM
VP2	19/07/2022	08:36	Meadow Pipit	1	17	12	5	17	0	cutover bog; display flight	NM
VP10	19/07/2022	09:06	Meadow Pipit	2	12	12	0	12	0	cutover bog; travelling	NM
VP10	19/07/2022	09:32	Meadow Pipit	1	8	8	0	8	0	cutover bog; travelling	NM
VP10	19/07/2022	11:01	Meadow Pipit	1	11	11	0	11	0	cutover bog; travelling/foraging	NM
VP10	19/07/2022	13:11	Meadow Pipit	1	18	12	6	18	8	cutover bog; display flight/calling	NM
VP16	19/07/2022	13:29	Meadow Pipit	1	10	10	0	10	0	cutover bog; foraging	KS
VP5	25/07/2022	10:55	Meadow Pipit	1	15	15	0	15	0	cutover bog and scrub; flight call, lost in trees	EF
VP3	26/07/2022	08:40	Meadow Pipit	1	5	5	0	5	0	cutover bog and scrub; direct flight, into heather	EF
VP4	27/07/2022	10:25	Meadow Pipit	1	5	5	0	5	0	cutover bog and scrub; flying, flew past and into birch scrub	EF
VP1	28/07/2022	08:25	Meadow Pipit	1	10	10	0	10	0	cutover bog and scrub; flying/calling, landed	EF

Vantage Point Surveys											
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
VP15	28/07/2022	15:58	Meadow Pipit	2	20	20	0	20	0	cutover bog; foraging	KS
VP2	29/07/2022	08:05	Meadow Pipit	1	24	24	0	24	0	cutover bog and scrub; flying/calling, landed in heather	EF
VP1	05/08/2022	09:48	Meadow Pipit	6	20	20	0	20	0	cutover bog and heath; feeding	KS
VP4	11/08/2022	12:06	Meadow Pipit	2	8	8	0	8	0	cutover bog and scrub; travelling	NM
VP4	11/08/2022	13:31	Meadow Pipit	1	6	6	0	6	0	cutover bog; travelling	NM
VP1	18/08/2022	20:06	Meadow Pipit	2	16	4	12	16	0	cutover bog; display flight	NM
VP6	19/08/2022	12:30	Meadow Pipit	1	12	12	0	12	0	cutover bog; travelling	NM
VP6	19/08/2022	17:10	Meadow Pipit	1	6	6	0	6	0	bogs; travelling	NM
VP8	23/08/2022	14:22	Meadow Pipit	1	6	6	0	6	0	bogs; travelling	NM
VP8	23/08/2022	15:20	Meadow Pipit	2	24	7	16	23	0	cutover bog; display flight/calling	NM
VP3	24/08/2022	10:35	Meadow Pipit	10	60	60	0	60	0	cutover bog; foraging	KS
VP14	25/08/2022	10:11	Meadow Pipit	4	20	20	0	20	0	cutover bog; foraging	KS
VP11	29/08/2022	09:35	Meadow Pipit	2	10	10	0	10	0	heath and scrub; flying/calling	EF
VP16	30/08/2022	11:20	Meadow Pipit	2	24	0	24	24	0	heath and scrub; flying/calling. landed	EF
VP14	30/08/2022	15:50	Meadow Pipit	1	5	5	0	5	0	cutover bog and scrub; flying/calling	EF
VP13	30/08/2022	09:07	Meadow Pipit	5	15	15	0	15	0	cutover bog; foraging	KS
VP13	30/08/2022	13:57	Meadow Pipit	3	10	10	0	10	0	cutover bog; travelling	KS
VP15	30/08/2022	14:15	Meadow Pipit	3	15	15	0	15	0	cutover bog; travelling	KS
VP3	30/08/2022	16:23	Meadow Pipit	1	8	8	0	8	0	cutover bog; travelling	NM
VP4	30/08/2022	19:08	Meadow Pipit	6	14	14	0	14	0	cutover bog; travelling/foraging	NM
VP12	31/08/2022	14:30	Meadow Pipit	2	16	16	0	16	0	cutover bog; travelling	NM
VP14	07/09/2022	18:09	Meadow Pipit	4	10	10	0	10	0	cutover bog; travelling	KS
VP10	08/09/2022	18:14	Meadow Pipit	2	14	14	0	14	0	cutover bog; travelling	NM
VP10	08/09/2022	18:39	Meadow Pipit	2	28	28	0	28	0	conifer plantation and cutover bog; travelling	NM

Vantage Point Surveys											
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
VP9	09/09/2022	16:09	Meadow Pipit	1	84	3	21	24	0	cutover bog and conifer plantation; travelling	NM
VP11	12/09/2022	07:04	Meadow Pipit	3	5	5	0	5	0	cutover bog and heath; travelling	KS
VP12	12/09/2022	09:57	Meadow Pipit	1	5	5	0	5	0	cutover bog; travelling	KS
VP12	12/09/2022	11:20	Meadow Pipit	2	5	5	0	5	0	cutover bog; travelling	KS
VP12	13/09/2022	16:03	Meadow Pipit	1	15	15	0	15	0	cutover bog; flight	KS
VP14	15/09/2022	08:25	Meadow Pipit	2	15	15	0	15	0	cutover bog and heath; foraging	KS
VP14	15/09/2022	10:17	Meadow Pipit	5	10	10	0	10	0	cutover bog; travelling	KS
VP16	20/09/2022	07:29	Meadow Pipit	3	25	25	0	25	0	cutover bog; travelling	KS
VP15	20/09/2022	09:56	Meadow Pipit	4	15	15	0	15	0	cutover bog; travelling	KS
VP2	21/09/2022	07:55	Meadow Pipit	10	20	20	0	20	0	cutover bog; perching on wires	KS
VP15	22/09/2022	14:15	Meadow Pipit	8	15	15	0	15	0	cutover bog; foraging	KS
VP4	22/09/2022	16:26	Meadow Pipit	4	18	18	0	18	0	cutover bog; travelling	NM
VP16	23/09/2022	15:43	Meadow Pipit	10	20	20	0	20	0	cutover bog; circling	KS
VP13	24/09/2022	14:30	Meadow Pipit	4	21	21	0	21	0	cutover bog and scrub; flew/landed, on ground	EF
VP15	24/09/2022	17:40	Meadow Pipit	1	7	7	0	7	0	cutover bog and scrub; fly/land	EF
VP14	25/09/2022	14:20	Meadow Pipit	2	10	10	0	10	0	cutover bog and scrub; fly/land/calling	EF
VP14	25/09/2022	15:30	Meadow Pipit	6	28	28	0	28	0	cutover bog and scrub; circling. landed	EF
VP16	25/09/2022	17:20	Meadow Pipit	1	8	8	0	8	0	heath and scrub; fly/land. calling	EF
VP16	25/09/2022	18:15	Meadow Pipit	14	35	0	35	35	0	heath and scrub; direct flight	EF
VP2	27/09/2022	10:00	Meadow Pipit	8	52	52	0	52	0	cutover bog and scrub; flying/landed on ground, calling	EF
VP1	27/09/2022	12:55	Meadow Pipit	1	6	6	0	6	0	cutover bog and scrub; fly/land. calling, landed on ground	EF
VP1	27/09/2022	14:45	Meadow Pipit	7	83	83	0	83	0	cutover bog and scrub; flying/calling. landed, landed on ground	EF

Vantage Point Surveys											
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
VP9	27/09/2022	15:48	Meadow Pipit	1	62	12	4	16	0	cutover bog; travelling	NM
VP9	27/09/2022	16:37	Meadow Pipit	3	18	18	0	18	0	cutover bog; travelling	NM
VP4	28/09/2022	09:20	Meadow Pipit	2	8	8	0	8	0	cutover bog and scrub; flying/calling	EF
VP4	28/09/2022	11:55	Meadow Pipit	4	6	6	0	6	0	cutover bog and scrub; flying/calling, went behind	EF
VP3	28/09/2022	12:55	Meadow Pipit	3	5	5	0	5	0	cutover bog and scrub; flying/calling	EF
VP8	28/09/2022	15:48	Meadow Pipit	1	12	12	0	12	0	bogs; display flight	NM
VP8	28/09/2022	16:00	Meadow Pipit	2	6	6	0	6	0	bogs; travelling	NM
VP8	28/09/2022	16:33	Meadow Pipit	1	19	19	0	19	0	bogs; travelling	NM
VP7	28/09/2022	17:34	Meadow Pipit	2	32	0	32	32	0	cutover bog and conifer plantation; travelling	NM
VP5	29/09/2022	09:20	Meadow Pipit	2	8	8	0	8	0	cutover bog and scrub; flying/calling	EF
VP5	29/09/2022	11:05	Meadow Pipit	5	13	0	13	13	0	cutover bog and scrub; direct flight, lost behind	EF
VP5	29/09/2022	13:20	Meadow Pipit	2	12	12	0	12	0	heath and scrub; direct flight calling	EF
VP3	04/10/2022	08:04	Meadow Pipit	4	15	15	0	15	0	cutover bog; travelling	KS

Vantage Point Surveys (Non-Flight)						
VP	Date	Time	Species	Number	Habitat and activity	Surveyor
VP10	08/09/2020		Meadow Pipit			DM
VP11	09/09/2020		Meadow Pipit			DM
VP7	10/09/2020		Meadow Pipit			DM
VP8	11/09/2020		Meadow Pipit			DM
VP13	15/09/2020		Meadow Pipit			DM
VP14	16/09/2020		Meadow Pipit			DM

Vantage Point Surveys (Non-Flight)						
VP	Date	Time	Species	Number	Habitat and activity	Surveyor
VP9	17/09/2020		Meadow Pipit			DM
VP12	18/09/2020		Meadow Pipit			DM
VP14	17/03/2021		Meadow Pipit			KB
VP15	19/03/2021		Meadow Pipit			KB
VP16	24/03/2021		Meadow Pipit			KB
VP8	05/04/2021		Meadow Pipit			DM
VP10	06/04/2021		Meadow Pipit			DM
VP5	07/04/2021		Meadow Pipit			DM
VP10	08/04/2021		Meadow Pipit			DM
VP9	09/04/2021		Meadow Pipit			DM
VP13	14/04/2021	15:00	Meadow Pipit	4	cutover bog; flying over, foraging	KB
VP14	15/04/2021	14:58	Meadow Pipit	4	cutover bog; singing, foraging	KB
VP12	16/04/2021	17:30	Meadow Pipit	2	cutover bog; flying over, foraging	KB
VP16	21/04/2021	20:00	Meadow Pipit	2	cutover bog; singing, foraging	KB
VP16	21/04/2021	20:15	Meadow Pipit	2	cutover bog; flying over, foraging	KB
VP6	21/04/2021		Meadow Pipit			DM
VP11	22/04/2021	15:02	Meadow Pipit	2	cutover bog; flying over, foraging, singing	KB
VP3	22/04/2021		Meadow Pipit			DM
VP2	23/04/2021		Meadow Pipit			DM
VP12	05/05/2021	06:10	Meadow Pipit	1	cutover bog; singing	KB
VP13	06/05/2021	07:31	Meadow Pipit	1	cutover bog and scrub; perched on a tree - foraging	KB
VP11	07/05/2021	06:30	Meadow Pipit	4	raised bog and cutover bog; 2 pairs - courtship display	KB
VP8	17/05/2021	07:05	Meadow Pipit	1	cutover bog; perched on small tree	DM
VP8	17/05/2021	10:50	Meadow Pipit	2	cutover bog; in heather, pair	DM
VP14	17/05/2021	08:37	Meadow Pipit	2	cutover bog; pair with food	KB

Vantage Point Surveys (Non-Flight)						
VP	Date	Time	Species	Number	Habitat and activity	Surveyor
VP14	17/05/2021	08:38	Meadow Pipit	4	cutover bog; mobbing a cuckoo and alarm calling, 4 MPs in total	KB
VP10	18/05/2021	07:05	Meadow Pipit	1	cutover bog; perched on small tree	DM
VP10	18/05/2021	07:15	Meadow Pipit	1	cutover bog; landed on bog	DM
VP10	18/05/2021	07:30	Meadow Pipit	2	cutover bog; on bog	DM
VP1	19/05/2021	06:00	Meadow Pipit	2	cutover bog; pair displaying	DM
VP1	19/05/2021	06:00	Meadow Pipit	2	cutover bog; pair displaying	DM
VP1	19/05/2021	06:00	Meadow Pipit	2	cutover bog; pair displaying	DM
VP1	19/05/2021	06:00	Meadow Pipit	2	cutover bog; pair displaying	DM
VP1	19/05/2021		Meadow Pipit	1	cutover bog; displaying	DM
VP1	19/05/2021		Meadow Pipit	1	cutover bog; displaying	DM
VP1	19/05/2021		Meadow Pipit	1	cutover bog; displaying	DM
VP3	20/05/2021	08:43	Meadow Pipit	3	cutover bog; displaying, pair in territory	DM
VP2	21/05/2021	06:20	Meadow Pipit	2	cutover bog; one perched and one displaying	DM
VP2	21/05/2021	08:50	Meadow Pipit	1	cutover bog; perched on bog	DM
VP16	21/05/2021	06:05	Meadow Pipit	1	cutover bog; singing	KB
VP15	21/05/2021	08:15	Meadow Pipit	1	cutover bog; singing	KB
VP7	22/05/2021	08:00	Meadow Pipit	2	cutover bog; in suitable habitat	DM
VP9	24/05/2021	08:45	Meadow Pipit	1	cutover bog; displaying	DM
VP4	25/05/2021	10:05	Meadow Pipit	1	cutover bog; display flight	DM
VP5	29/05/2021	06:17	Meadow Pipit	1	cutover bog; display flight	DM
VP6	31/05/2021	06:05	Meadow Pipit	2	cutover bog; mobbing cuckoo	DM
VP4	22/06/2021	16:15	Meadow Pipit	2	scrub: perched in a willow near VP calling, mpx2 perched in WS1 calling to each other	SI
VP1	05/07/2021	14:00	Meadow Pipit	6	cutover bog; singing	CR
VP2	07/07/2021	12:00	Meadow Pipit	9	cutover bog; singing	CR

Vantage Point Surveys (Non-Flight)						
VP	Date	Time	Species	Number	Habitat and activity	Surveyor
VP3	09/07/2021	10:12	Meadow Pipit	9	cutover bog; singing, feeding.	CR
VP5	15/07/2021	13:15	Meadow Pipit	9	cutover bog; singing.	CR
VP9	26/07/2021		Meadow Pipit			ED
VP2	03/08/2021	13:15	Meadow Pipit	3	cutover bog; singing	CR
VP3	09/08/2021	12:45	Meadow Pipit	5	cutover bog; singing	CR
VP13	11/06/2021	14:05	Meadow Pipit	2	cutover bog; singing	KB
VP14	16/06/2021	12:10	Meadow Pipit	2	cutover bog; singing	KB
VP16	17/06/2021	13:30	Meadow Pipit	2	cutover bog; foraging pair	KB
VP16	22/06/2021	14:50	Meadow Pipit	2	cutover bog; foraging	KB
VP15	22/06/2021	17:05	Meadow Pipit	1	cutover bog; singing	KB
VP5	16/08/2021	14:10	Meadow Pipit	3	cutover bog; singing	CR
VP6	19/08/2021	13:55	Meadow Pipit	4	cutover bog; singing	CR
VP7	20/08/2021	14:15	Meadow Pipit	6	bogs; singing	CR
VP1	25/08/2021	19:00	Meadow Pipit	5	cutover bog; singing, flying	CR
VP14	01/09/2021		Meadow Pipit			DW
VP2	02/09/2021	18:25	Meadow Pipit	5	cutover bog; singing, flying	CR
VP1	06/09/2021	19:50	Meadow Pipit	14	cutover bog; singing, flying	CR
VP5	15/09/2021	19:00	Meadow Pipit	8	cutover bog; flying, singing	CR
VP6	16/09/2021	19:10	Meadow Pipit	6	cutover bog; flying, singing	CR
VP7	17/09/2021	19:27	Meadow Pipit	7	cutover bog; singing	CR
VP8	21/09/2021	19:30	Meadow Pipit	11	cutover bog; flying, singing	CR
VP12	12/08/2021	13:50	Meadow Pipit	2	cutover bog and scrub; foraging	KB
VP11	13/08/2021	11:02	Meadow Pipit	3	raised bog and cutover bog; foraging	KB
VP9	30/08/2021	13:03	Meadow Pipit	12	cutover bog and scrub; foraging	KB
VP10	31/08/2021	11:45	Meadow Pipit	4	cutover bog; foraging	KB

Vantage Point Surveys (Non-Flight)						
VP	Date	Time	Species	Number	Habitat and activity	Surveyor
VP11	21/11/2021	11:29	Meadow Pipit	4	cutover bog; calling, perched	TS
VP11	20/01/2022	12:00	Meadow Pipit	2	raised bog; foraging	KB
VP6	25/02/2022	12:45	Meadow Pipit	3	bogs	DW
VP10	01/03/2022	08:50	Meadow Pipit	2	cutover bog; foraging	KB
VP12	13/03/2022	16:52	Meadow Pipit	1	cutover bog; foraging	KB
VP14	15/03/2022	13:05	Meadow Pipit	3	cutover bog; calling, singing	TS
VP9	16/03/2022	17:54	Meadow Pipit	1	cutover bog; foraging	KB
VP11	17/03/2022	17:44	Meadow Pipit	2	cutover bog; foraging	KB
VP11	17/03/2022	18:16	Meadow Pipit	3	cutover bog; foraging	KB
VP2	12/04/2022	09:42	Meadow Pipit	1	cutover bog; perched, none	NM
VP13	28/08/2022	11:55	Meadow Pipit	1	cutover bog and scrub; calling, not seen	EF
VP9	08/11/2021	14:44	Meadow Pipit	1	cutover bog and scrub; foraging	KB
VP8	09/11/2021	08:06	Meadow Pipit	4	cutover bog; foraging	KB
VP8	10/11/2021	15:01	Meadow Pipit	6	cutover bog; foraging	KB

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
01/04/2021		Meadow Pipit			DW
05/04/2021		Meadow Pipit			DW
14/04/2021		Meadow Pipit			DW
05/05/2021		Meadow Pipit			DW
06/05/2021		Meadow Pipit			DW
07/05/2021		Meadow Pipit			DW
12/05/2021		Meadow Pipit			DW

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
13/05/2021		Meadow Pipit			DW
14/05/2021		Meadow Pipit			DW
18/05/2021		Meadow Pipit			DW
19/05/2021		Meadow Pipit			DW
01/06/2021		Meadow Pipit			DW
02/06/2021		Meadow Pipit			DW
03/06/2021		Meadow Pipit			DW
04/06/2021		Meadow Pipit			DW
09/06/2021		Meadow Pipit			DW
10/06/2021		Meadow Pipit			DW
11/06/2021		Meadow Pipit			DW
13/06/2021		Meadow Pipit			DW
02/07/2021		Meadow Pipit			DW
06/07/2021		Meadow Pipit			DW
07/07/2021		Meadow Pipit			DW
08/07/2021		Meadow Pipit			DW
09/07/2021		Meadow Pipit			DW
13/07/2021		Meadow Pipit			DW
14/07/2021		Meadow Pipit			DW
16/07/2021		Meadow Pipit			DW
28/04/2022	13:07	Meadow Pipit	1	cutover bog; calling/travelling (flyover; non-breeding)	NM
28/04/2022	13:34	Meadow Pipit	2	cutover bog; flushed flight (pair; probable breeding)	NM
28/04/2022	14:20	Meadow Pipit	1	cutover bog; singing (suitable nesting habitat; possible breeder)	NM
29/04/2022	14:35	Meadow Pipit	2	cutover bog; perched/flushed flight (pair; probable breeding)	NM

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
29/04/2022	14:52	Meadow Pipit	1	cutover bog; flushed flight, bird seen feigning injury. unusual flight (agitated behaviour; probable breeding)	NM
03/05/2022	15:52	Meadow Pipit	2	cutover bog; flight (agitated behaviour; probable breeding)	NM
03/05/2022	15:57	Meadow Pipit	1	cutover bog; travelling (flyover; non-breeding)	NM
07/05/2022	13:05	Meadow Pipit	1	cutover bog; foraging (flyover; non-breeding)	NM
07/05/2022	13:29	Meadow Pipit	1	cutover bog; travelling (flyover; non-breeding)	NM
07/05/2022	15:51	Meadow Pipit	1	bogs; travelling/perched (agitated behaviour; probable breeding)	NM
07/05/2022	16:04	Meadow Pipit	1	cutover bog; travelling (flyover; non-breeding)	NM
18/05/2022	15:00	Meadow Pipit	2	cutover bog; travelling/calling (pair; probable breeding)	NM
18/05/2022	15:03	Meadow Pipit	2	scrub and cutover bog; travelling/calling (pair; probable breeding)	NM
18/05/2022	15:23	Meadow Pipit	2	cutover bog; travelling (pair; probable breeding)	NM
18/05/2022	15:34	Meadow Pipit	2	cutover bog; travelling (pair; probable breeding)	NM
18/05/2022	15:42	Meadow Pipit	2	cutover bog; display flight (pair; probable breeding)	NM
18/05/2022	15:52	Meadow Pipit	1	cutover bog; display flight (flyover; non-breeding)	NM
18/05/2022	17:18	Meadow Pipit	1	cutover bog; display flight (flyover; non-breeding)	NM
19/05/2022	13:54	Meadow Pipit	1	cutover bog; travelling (flyover; non-breeding)	NM
19/05/2022	14:31	Meadow Pipit	1	cutover bog; display flight (flyover; non-breeding)	NM
19/05/2022	14:37	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
19/05/2022	14:54	Meadow Pipit	2	cutover bog; calling (pair; probable breeding)	NM
19/05/2022	14:55	Meadow Pipit	2	cutover bog; foraging (suitable nesting habitat; possible breeder)	NM
19/05/2022	15:01	Meadow Pipit	2	cutover bog; display flight (pair; probable breeding)	NM
19/05/2022	15:06	Meadow Pipit	6	cutover bog; foraging (suitable nesting habitat; possible breeder)	NM
19/05/2022	15:47	Meadow Pipit	1	cutover bog; travelling/calling (suitable nesting habitat; possible breeder)	NM
19/05/2022	15:58	Meadow Pipit	1	cutover bog; foraging (suitable nesting habitat; possible breeder)	NM
25/05/2022	06:47	Meadow Pipit	1	bogs; display flight (suitable nesting habitat; possible breeder)	NM

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
25/05/2022	06:56	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
25/05/2022	07:02	Meadow Pipit	2	cutover bog; travelling/calling (pair; probable breeding)	NM
25/05/2022	08:00	Meadow Pipit	2	cutover bog; travelling/calling (pair; probable breeding)	NM
25/05/2022	08:08	Meadow Pipit	8	cutover bog; singing/display flight, 4 pairs observed in close vicinity (pair; probable breeding)	NM
25/05/2022	08:25	Meadow Pipit	2	cutover bog; travelling (pair; probable breeding)	NM
25/05/2022	08:32	Meadow Pipit	1	cutover bog; distraction display flight (distraction display; confirmed breeding)	NM
25/05/2022	08:45	Meadow Pipit	1	cutover bog; calling/travelling (suitable nesting habitat; possible breeder)	NM
25/05/2022	09:22	Meadow Pipit	2	cutover bog; travelling (pair; probable breeding)	NM
25/05/2022	09:52	Meadow Pipit	1	cutover bog; display calling (suitable nesting habitat; possible breeder)	NM
25/05/2022	11:02	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
26/05/2022	07:24	Meadow Pipit	8	cutover bog; display flight/calling, multiple individuals displaying in the area (suitable nesting habitat; possible breeder)	NM
26/05/2022	07:29	Meadow Pipit	2	bogs; display flight (pair; probable breeding)	NM
26/05/2022	07:36	Meadow Pipit	3	cutover bog; travelling/calling (suitable nesting habitat; possible breeder)	NM
26/05/2022	07:38	Meadow Pipit	1	cutover bog; display flight/calling (suitable nesting habitat; possible breeder)	NM
26/05/2022	07:40	Meadow Pipit	8	cutover bog; travelling/calling (suitable nesting habitat; possible breeder)	NM
26/05/2022	07:48	Meadow Pipit	2	cutover bog; display flight (pair; probable breeding)	NM
26/05/2022	08:14	Meadow Pipit	1	bogs; travelling (suitable nesting habitat; possible breeder)	NM
26/05/2022	08:18	Meadow Pipit	4	bogs; calling/travelling (suitable nesting habitat; possible breeder)	NM
26/05/2022	08:42	Meadow Pipit	2	cutover bog; travelling (pair; probable breeding)	NM
26/05/2022	09:12	Meadow Pipit	1	bogs; travelling (suitable nesting habitat; possible breeder)	NM
26/05/2022	09:37	Meadow Pipit	2	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
26/05/2022	09:55	Meadow Pipit	2	bogs; travelling/calling (pair; probable breeding)	NM

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
26/05/2022	09:58	Meadow Pipit	1	bogs and conifer plantation; travelling (suitable nesting habitat; possible breeder)	NM
26/05/2022	11:04	Meadow Pipit	1	bogs; travelling/calling (suitable nesting habitat; possible breeder)	NM
27/05/2022	16:40	Meadow Pipit	1	bogs; display flight (suitable nesting habitat; possible breeder)	NM
27/05/2022	16:41	Meadow Pipit	2	bogs; flushed flight (pair; probable breeding)	NM
27/05/2022	16:41	Meadow Pipit	2	bogs; display flight/calling (pair; probable breeding)	NM
27/05/2022	17:35	Meadow Pipit	1	cutover bog; flushed flight (suitable nesting habitat; possible breeder)	NM
27/05/2022	20:23	Meadow Pipit	2	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
30/05/2022	15:13	Meadow Pipit	2	cutover bog; display flight (pair; probable breeding)	NM
30/05/2022	15:20	Meadow Pipit	4	cutover bog; travelling/calling (suitable nesting habitat; possible breeder)	NM
30/05/2022	16:28	Meadow Pipit	10	cutover bog; calling/display/perched, multiple pairs observed (suitable nesting habitat; possible breeder)	NM
30/05/2022	16:36	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
30/05/2022	17:00	Meadow Pipit	14	cutover bog; display/travelling (suitable nesting habitat; possible breeder)	NM
03/06/2022	16:09	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
03/06/2022	16:55	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
03/06/2022	17:14	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
09/06/2022	14:32	Meadow Pipit	2	cutover bog; chasing (pair; probable breeding)	NM
09/06/2022	15:01	Meadow Pipit	1	cutover bog; flushed flight/display call (suitable nesting habitat; possible breeder)	NM
09/06/2022	15:19	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
09/06/2022	16:10	Meadow Pipit	1	cutover bog; flushed flight (suitable nesting habitat; possible breeder)	NM
09/06/2022	16:11	Meadow Pipit	1	bogs; display flight (suitable nesting habitat; possible breeder)	NM
17/06/2022	12:15	Meadow Pipit	2	cutover bog; display flight (pair; probable breeding)	NM
17/06/2022	12:22	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
17/06/2022	13:05	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
17/06/2022	14:32	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
17/06/2022	15:53	Meadow Pipit	1	bogs; display flight (suitable nesting habitat; possible breeder)	NM
17/06/2022	16:26	Meadow Pipit	2	cutover bog; calling/foraging (suitable nesting habitat; possible breeder)	NM
17/06/2022	17:13	Meadow Pipit	1	bogs; display flight (suitable nesting habitat; possible breeder)	NM
17/06/2022	17:22	Meadow Pipit	1	bogs; travelling (suitable nesting habitat; possible breeder)	NM
17/06/2022	17:27	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
17/06/2022	17:27	Meadow Pipit	1	bogs; display flight (suitable nesting habitat; possible breeder)	NM
17/06/2022	17:33	Meadow Pipit	1	bogs; travelling (suitable nesting habitat; possible breeder)	NM
17/06/2022	17:46	Meadow Pipit	1	cutover bog and conifer plantation; travelling (suitable nesting habitat; possible breeder)	NM
20/06/2022	14:37	Meadow Pipit	1	scrub; travelling (suitable nesting habitat; possible breeder)	NM
20/06/2022	15:28	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
20/06/2022	15:31	Meadow Pipit	2	bogs; display flight (pair; probable breeding)	NM
20/06/2022	15:40	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
20/06/2022	15:41	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
20/06/2022	15:49	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
20/06/2022	15:51	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
20/06/2022	15:55	Meadow Pipit	1	cutover bog and watercourses; travelling (suitable nesting habitat; possible breeder)	NM
20/06/2022	16:17	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
20/06/2022	16:48	Meadow Pipit	2	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
20/06/2022	17:26	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
22/06/2022	15:47	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
22/06/2022	16:11	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
22/06/2022	16:21	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
22/06/2022	16:30	Meadow Pipit	8	cutover bog; display flight/travelling (suitable nesting habitat; possible breeder)	NM
22/06/2022	17:18	Meadow Pipit	12	cutover bog; display flight/travelling (suitable nesting habitat; possible breeder)	NM
23/06/2022	15:20	Meadow Pipit	2	bogs; travelling (pair; probable breeding)	NM
23/06/2022	15:54	Meadow Pipit	1	cutover bog; flushed flight (suitable nesting habitat; possible breeder)	NM
23/06/2022	17:23	Meadow Pipit	7	bogs; display flight (suitable nesting habitat; possible breeder)	NM
24/06/2022	13:22	Meadow Pipit	1	bogs; display flight (suitable nesting habitat; possible breeder)	NM
24/06/2022	14:00	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
24/06/2022	15:13	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
27/06/2022	14:10	Meadow Pipit	12	bogs; display flight (suitable nesting habitat; possible breeder)	NM
27/06/2022	15:01	Meadow Pipit	1	bogs; display flight (suitable nesting habitat; possible breeder)	NM
27/06/2022	16:14	Meadow Pipit	4	bogs; display flight (suitable nesting habitat; possible breeder)	NM
28/06/2022	15:01	Meadow Pipit	1	bogs; flushed flight (suitable nesting habitat; possible breeder)	NM
28/06/2022	15:05	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
29/06/2022	14:15	Meadow Pipit	6	cutover bog; display flight/travelling (suitable nesting habitat; possible breeder)	NM
29/06/2022	14:36	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
29/06/2022	14:48	Meadow Pipit	3	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
29/06/2022	16:05	Meadow Pipit	1	conifer plantation and cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
30/06/2022	09:41	Meadow Pipit	8	bogs; display flight/foraging (suitable nesting habitat; possible breeder)	NM
30/06/2022	11:12	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
30/06/2022	13:06	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
30/06/2022	14:00	Meadow Pipit	4	bogs; display flight/travelling (suitable nesting habitat; possible breeder)	NM
25/07/2022	14:36	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
25/07/2022	15:27	Meadow Pipit	2	cutover bog; alarming flight (agitated behaviour; probable breeding)	NM

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
25/07/2022	16:40	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
28/07/2022	17:14	Meadow Pipit	3	cutover bog and scrub; flushed flight (suitable nesting habitat; possible breeder)	NM
28/07/2022	17:29	Meadow Pipit	2	cutover bog; flushed flight (pair; probable breeding)	NM
29/07/2022	16:07	Meadow Pipit	1	scrub and cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
29/07/2022	16:24	Meadow Pipit	1	cutover bog; travelling (suitable nesting habitat; possible breeder)	NM
29/07/2022	16:42	Meadow Pipit	1	cutover bog; display flight/calling (suitable nesting habitat; possible breeder)	NM
03/08/2022	14:22	Meadow Pipit	8	cutover bog; display flight/foraging (pair; probable breeding)	NM
04/08/2022	14:16	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM
05/08/2022	16:29	Meadow Pipit	1	cutover bog; display flight (suitable nesting habitat; possible breeder)	NM

Winter Walkover Survey					
Date	Time	Species	Number	Habitat and activity	Surveyor
29/03/2021	12:15	Meadow Pipit	30	bogs; displaying, at least 30 meadow pipits in area B some displaying and some moving around the bog.	AR
29/03/2021	15:57	Meadow Pipit	20	bogs; displaying, 20 birds moving around area A some birds displaying	AR
29/03/2021	17:00	Meadow Pipit	27	bogs; displaying, at least 27 meadow pipits in area c	AR
16/12/2021	09:55	Meadow Pipit	1	bogs; travelling,	JM
16/12/2021	10:30	Meadow Pipit	5	bogs; travelling,	JM
16/12/2021	12:06	Meadow Pipit	2	bogs; travelling,	JM
16/12/2021	12:38	Meadow Pipit	4	bogs; travelling,	JM
17/12/2021	09:06	Meadow Pipit	1	bogs; travelling,	JM
17/12/2021	10:45	Meadow Pipit	1	bogs; travelling,	JM

Winter Walkover Survey					
Date	Time	Species	Number	Habitat and activity	Surveyor
17/12/2021	11:25	Meadow Pipit	2	bogs; travelling,	JM
13/01/2022	10:30	Meadow Pipit	2	bogs; calling/perched/flying,	JM
13/01/2022	10:45	Meadow Pipit	8	bogs; calling/travelling,	JM
17/01/2022	10:18	Meadow Pipit	1	bogs; calling/perched/flying,	JM
17/01/2022	12:22	Meadow Pipit	1	bogs; travelling/calling,	JM
18/03/2022	14:51	Meadow Pipit	1	cutover bog; flushed flight,	NM
18/03/2022	14:53	Meadow Pipit	1	cutover bog; flight,	NM
18/03/2022	18:14	Meadow Pipit	1	cutover bog; perched,	NM

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP3	10/10/2021	16:40	Meadow Pipit	3	5	stone walls and other stonework and improved agricultural grassland; flying, perched	TS
CMVP3	22/10/2021	08:52	Meadow Pipit	30	30	stone walls and other stonework and improved agricultural grassland; flying, perched, cemetery	TS
CMVP1	02/11/2021	16:18	Meadow Pipit	1		raised bog, calling	TS
CMVP1	02/11/2021	16:42	Meadow Pipit	5	15	raised bog and buildings and artificial surfaces; flying, 100m S crossing the track	TS
CMVP3	03/11/2021	15:50	Meadow Pipit	1		buildings and artificial surfaces and improved agricultural grassland; calling, perched	TS
CMVP1	02/12/2021	16:01	Meadow Pipit	2	15	raised bog; flying, calling	TS
CMVP2	03/12/2021	09:12	Meadow Pipit	8	20	buildings and artificial surfaces and improved agricultural grassland; flying, calling	TS

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP3	03/12/2021	14:12	Meadow Pipit	1	10	buildings and artificial surfaces; flying, calling, perched	TS
CMVP1	18/12/2021	08:25	Meadow Pipit	1	20	cutover bog; flying, calling	TS
CMVP2	18/12/2021	16:11	Meadow Pipit	1		improved agricultural grassland; calling, field E from graveyard	TS
CMVP3	19/12/2021	08:02	Meadow Pipit	2	20	buildings and artificial surfaces and improved agricultural grassland; flying, perched	TS
CMVP5	20/12/2021	10:15	Meadow Pipit	1		improved agricultural grassland; calling	TS
CMVP1	11/01/2022	16:35	Meadow Pipit	1		cutover bog; calling, bird not seen	TS
CMVP3	12/01/2022	14:39	Meadow Pipit	1		improved agricultural grassland; calling, not seen	TS
CMVP5	13/01/2022	16:52	Meadow Pipit	1		improved agricultural grassland; calling, heard from behind the hedge	TS
CMVP1	25/01/2022	08:10	Meadow Pipit	2	10	cutover bog; flying calling	TS
CMVP3	26/01/2022	09:29	Meadow Pipit	2	20	buildings and artificial surfaces and improved agricultural grassland; flying, perched	TS
CMVP1	01/02/2022	16:35	Meadow Pipit	1	30	cutover bog; flying, calling	TS
CMVP3	02/02/2022	15:11	Meadow Pipit	1		buildings and artificial surfaces; perching, flying, calling, perching in the graveyard	TS
CMVP1	23/02/2022	08:21	Meadow Pipit	2		cutover bog; calling, not seen	TS
CMVP3	24/02/2022	09:09	Meadow Pipit	1		buildings and artificial surfaces; perching, flying, calling, in the graveyard	TS
CMVP1	01/03/2022	17:51	Meadow Pipit	4	60	cutover bog; flying calling	TS
CMVP3	02/03/2022	17:01	Meadow Pipit	14		amenity grassland (improved), buildings and artificial surfaces and improved agricultural grassland; calling, flying, perching	TS
CMVP1	26/03/2022	07:17	Meadow Pipit	2		cutover bog; calling, flying, perching	TS

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP3	27/03/2022	08:07	Meadow Pipit	4	20	buildings and artificial surfaces; flying, perching, in graveyard	TS
CMVP1	12/04/2022	07:50	Meadow Pipit	2	0	heath; perched	EF
CMVP4	16/04/2022	06:55	Meadow Pipit	1	20	improved grassland; display flight and perching on post	EF
CMVP1	23/04/2022	19:05	Meadow Pipit	1	20	heath; display flight	EF
CMVP3	24/04/2022	20:00	Meadow Pipit	1	5	semi-natural grassland; landed in tree	EF

Incidental Observations							
Location	Date	Time	Species	Number	Habitat and activity	Surveyor	
Vantage Point Survey, VP14	22/08/2020	20:27	Meadow Pipit	13		DM	
Breeding Raptor Survey, transect along tracks to VP14	07/07/2021	12:29	Meadow Pipit	4	cutover bog; foraging; 2 singing	KB	
Breeding Raptor Survey, transect 7	07/07/2021	17:37	Meadow Pipit	2	cutover bog; foraging	KB	
Breeding Raptor Survey, transect 1	08/07/2021	15:24	Meadow Pipit	8	cutover bog; foraging	KB	
Breeding Raptor Survey, transect 2	13/07/2021	16:20	Meadow Pipit	4	cutover bog; foraging	KB	
Vantage Point Survey, on route to VP8 from car	21/07/2021	09:18	Meadow Pipit	2	cutover bog; foraging and calling	KB	
Vantage Point Survey, VP9	28/09/2021	18:57	Meadow Pipit	22	dry siliceous heath and cutover bog; foraging over heather	KS	
Vantage Point Survey, VP14	14/10/2021	12:49	Meadow Pipit	1	dry siliceous heath; travelling	KS	
Vantage Point Survey, 200m NW from VP13	27/11/2021	10:38	Meadow Pipit	1	cutover bog; flying, calling	TS	
Vantage Point Survey, 200m W from VP10	28/11/2021	13:54	Meadow Pipit	1	cutover bog; heard, not seen	TS	
Hen Harrier Roost Survey, HHVP1	13/03/2022	18:21	Meadow Pipit	1	raised bog; flushed flight display	NM	
Vantage Point Survey, bog 50m E from access track to VP13	14/03/2022	12:45	Meadow Pipit	2	cutover bog; calling singing	TS	
Hen Harrier Roost Survey, HHVP2	16/03/2022	17:01	Meadow Pipit	1	raised bog; perched/flight	NM	
Vantage Point Survey, VP5	22/03/2022	17:37	Meadow Pipit	1	raised bog; perched	NM	

Incidental Observations						
Location	Date	Time	Species	Number	Habitat and activity	Surveyor
Vantage Point Survey, VP5	22/03/2022	18:21	Meadow Pipit	2	raised bog; flight display call	NM
Vantage Point Survey, VP1	12/04/2022	05:30	Meadow Pipit	1	cutover bog; flushed flight	NM
Vantage Point Survey, VP1	12/04/2022	05:32	Meadow Pipit	1	cutover bog; flushed flight	NM
Vantage Point Survey, VP3	05/07/2022	14:55	Meadow Pipit	2	cutover bog; flushed flight	NM
Vantage Point Survey, VP3	05/07/2022	14:55	Meadow Pipit	2	cutover bog; flushed flight	NM
Vantage Point Survey, close to VP8	25/08/2022	16:40	Meadow Pipit	4	heath and scrub; flushed, while walking from VP8 to van across bog	EF
Vantage Point Survey, walking from VP15	28/08/2022	16:00	Meadow Pipit	2	cutover bog and scrub; flying/calling, flew from ground	EF
Hen Harrier Roost Survey, VP8	19/09/2022	13:52	Meadow Pipit	18	cutover bog; foraging/travelling	NM
Vantage Point Survey, VP7	20/09/2022	13:45	Meadow Pipit	5	cutover bog; travelling	NM
Vantage Point Survey, VP8	28/09/2022	13:43	Meadow Pipit	1	cutover bog; travelling	NM

Table 21 Redwing Survey Data

Vantage Point Surveys											
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
VP8	21/10/2021	08:38	Redwing	22	10	10	0	0	0	bogs; travelling	JM
VP8	21/10/2021	09:21	Redwing	3	10	10	0	0	0	bogs; travelling	JM
VP8	21/10/2021	09:44	Redwing	5	10	10	0	0	0	mixed broadleaved/conifer woodland; travelling	JM
VP7	22/10/2021	07:55	Redwing	6	5	5	0	0	0	bogs; travelling	JM
VP7	22/10/2021	08:08	Redwing	4	10	10	0	0	0	bogs; travelling	JM
VP7	22/10/2021	08:48	Redwing	2	12	12	0	0	0	bog woodland; travelling	JM
VP7	22/10/2021	09:09	Redwing	22	51	0	11	40	0	bogs and bog woodland; travelling	JM
VP7	22/10/2021	09:44	Redwing	2	6	6	0	0	0	bogs and bog woodland; travelling	JM
VP7	22/10/2021	11:20	Redwing	16	9	9	0	0	0	bogs and bog woodland; travelling	JM
VP9	26/10/2021	08:26	Redwing	4	10	10	0	0	0	bogs and bog woodland; travelling	JM
VP9	26/10/2021	08:30	Redwing	4	30	15	15	0	0	bogs and bog woodland; travelling	JM
VP9	26/10/2021	09:35	Redwing	4	15	0	15	0	0	bogs and bog woodland; travelling	JM
VP10	28/10/2021	08:54	Redwing	3	15	0	15	0	0	bogs; travelling	JM
VP10	28/10/2021	09:01	Redwing	3	5	0	0	5	0	bogs; travelling	JM
VP10	28/10/2021	11:57	Redwing	2	5	0	5	0	0	bogs and bog woodland; travelling	JM
VP10	28/10/2021	12:21	Redwing	9	6	6	0	0	0	bog woodland and bogs; travelling	JM
VP11	29/10/2021	11:40	Redwing	2	33	0	0	33	0	bogs and bog woodland; travelling	JM
VP2	02/11/2021	12:05	Redwing	10	70	0	0	0	0	bogs; travelling	JM
VP2	02/11/2021	12:47	Redwing	7	20	20	0	20	0	bogs and bog woodland; travelling	JM
VP5	03/11/2021	12:45	Redwing	5	10	10	0	10	0	bogs and bog woodland; travelling	JM
VP5	03/11/2021	16:37	Redwing	10	23	15	8	23	0	bogs and bog woodland; travelling	JM
VP3	08/11/2021	15:17	Redwing	31	52	5	25	30	0	mixed broadleaved/conifer woodland and bogs; travelling	JM
VP1	09/11/2021	16:25	Redwing	4	64	0	64	64	0	bogs and mixed broadleaved/conifer woodland; travelling	JM

Vantage Point Surveys											
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
VP1	09/11/2021	16:34	Redwing	4	36	0	36	36	0	bogs; travelling	JM
VP1	09/11/2021	16:47	Redwing	9	45	0	45	45	0	bogs and mixed broadleaved/conifer woodland; travelling	JM
VP4	10/11/2021	16:41	Redwing	11	15	15	0	15	0	bogs and scrub; travelling	JM
VP10	28/11/2021	16:47	Redwing	14	7	7	0	7	0	cutover bog and mixed broadleaved/conifer woodland; flying in small groups 3-4 birds at the time	TS
VP1	06/12/2021	08:51	Redwing	1	27	0	0	0	0	bogs and conifer plantation; travelling/calling	JM
VP7	12/12/2021	09:00	Redwing	4	30	30	0	30	0	scrub and cutover bog; flying	TS
VP9	16/12/2021	09:22	Redwing	15	20	0	10	10	0	cutover bog and scrub; flying, estimated number from flock of 45 mixed in with ff	TS
VP1	01/03/2022	17:37	Redwing	10	13	13	0	13	0	bogs, mixed broadleaved/conifer woodland and conifer plantation; travelling	JM
VP1	01/03/2022	18:07	Redwing	47	29	29	0	29	0	bogs, conifer plantation and mixed broadleaved/conifer woodland; travelling	JM
VP14	15/03/2022	17:58	Redwing	18	25	25	0	25	0	cutover bog and scrub; flying	TS

Vantage Point Surveys (Non-Flight)						
VP	Date	Time	Species	Number	Habitat and activity	Surveyor
VP5	02/12/2021	07:39	Redwing	4	scrub; calling	TS
VP8	15/12/2021	08:13	Redwing	5	scrub; calling	TS
VP9	08/11/2021	15:10	Redwing	6	cutover bog and scrub; foraging	KB
VP8	09/11/2021	09:45	Redwing	18	cutover bog; foraging	KB
VP8	10/11/2021	15:40	Redwing	11	cutover bog and scrub; foraging	KB
VP7	19/11/2021	14:26	Redwing	18	cutover bog and scrub; foraging	KB

Vantage Point Surveys (Non-Flight)						
VP	Date	Time	Species	Number	Habitat and activity	Surveyor
VP7	19/11/2021	15:41	Redwing	73	cutover bog and scrub; foraging	KB
VP9	25/11/2021	12:54	Redwing	49	cutover bog and scrub; foraging	KB

Winter Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
13/01/2022	14:42	Redwing	9	bogs and mixed broadleaved woodland; travelling,	JM
19/03/2022	14:45	Redwing	2	conifer plantation; feeding,	NM

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP2	21/10/2021	18:34	Redwing	6	10	improved agricultural grassland and hedgerows; flying	TS
CMVP5	23/10/2021	08:17	Redwing	1		hedgerows; calling, in the hedge	TS
CMVP1	02/11/2021	16:36	Redwing	40	30	raised bog, mixed broadleaved woodland and scrub; flying	TS
CMVP2	03/11/2021	06:59	Redwing	1		hedgerows; few calls	TS
CMVP4	04/11/2021	09:17	Redwing	4	10	improved agricultural grassland, buildings and artificial surfaces and hedgerows; flying	TS
CMVP5	04/11/2021	15:21	Redwing	1		hedgerows; feeding, calling, perched	TS
CMVP2	24/11/2021	14:35	Redwing	10	5	hedgerows and improved agricultural grassland; flying, perched, seen in hedges several times	TS
CMVP3	25/11/2021	08:08	Redwing	2	10	improved agricultural grassland and buildings and artificial surfaces; flying	TS

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP4	25/11/2021	14:29	Redwing	9		amenity grassland (improved); perched, in flock with fieldfares	TS
CMVP4	25/11/2021	16:20	Redwing	20	15	amenity grassland (improved) and improved agricultural grassland; flying, in 2 flocks mixed with fieldfares	TS
CMVP5	26/11/2021	08:10	Redwing	1		hedgerows; calling, in the hedge near VP	TS
CMVP1	02/12/2021	16:17	Redwing	1		scrub; calling	TS
CMVP2	03/12/2021	07:55	Redwing	10		scrub; calling, from hedges all around	TS
CMVP2	03/12/2021	09:24	Redwing	30	15	improved agricultural grassland and buildings and artificial surfaces; flying	TS
CMVP3	03/12/2021	14:19	Redwing	17	15	buildings and artificial surfaces and improved agricultural grassland; flying, seen few times flying around	TS
CMVP4	04/12/2021	08:19	Redwing	12	10	amenity grassland (improved), improved agricultural grassland and hedgerows; flying, perched, around the pitch and in hedges with ff	TS
CMVP5	04/12/2021	14:21	Redwing	1	45	improved agricultural grassland and treelines; flying, perched, also feeding in fields and hedges nearby	TS
CMVP2	18/12/2021	14:13	Redwing	50	37	improved agricultural grassland and hedgerows; flying, flock of 120 birds mixed in with ff	TS
CMVP3	19/12/2021	09:46	Redwing	8		scrub; perched	TS
CMVP4	19/12/2021	14:21	Redwing	80	20	improved agricultural grassland, amenity grassland (improved) and scrub; flying, abundantly present in all the area	TS
CMVP5	20/12/2021	08:18	Redwing	2		scrub; calling, perched in the hedge	TS
CMVP2	12/01/2022	07:59	Redwing	4		hedgerows; calling	TS
CMVP3	12/01/2022	15:53	Redwing	1		hedgerows; calling	TS

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP4	13/01/2022	08:19	Redwing	39		amenity grassland (improved); perched	TS
CMVP5	13/01/2022	14:42	Redwing	6		hedgerows; calling	TS
CMVP3	26/01/2022	09:34	Redwing	1		hedgerows; perched, calling	TS
CMVP4	26/01/2022	14:59	Redwing	19	15	amenity grassland (improved) and treelines; flying, perched	TS
CMVP5	27/01/2022	07:31	Redwing	16		hedgerows; calling, flying, perching	TS
CMVP1	01/02/2022	15:13	Redwing	15	35	cutover bog, scrub and conifer plantation; flying	TS
CMVP2	02/02/2022	08:24	Redwing	12	25	improved agricultural grassland and buildings and artificial surfaces; flying	TS
CMVP3	02/02/2022	16:30	Redwing	85	40	improved agricultural grassland, treelines and buildings and artificial surfaces; flying, perching	TS
CMVP4	03/02/2022	07:59	Redwing	45		treelines, improved agricultural grassland and amenity grassland (improved), calling, flying	TS
CMVP5	03/02/2022	15:07	Redwing	8	20	treelines and improved agricultural grassland; flying, perching	TS
CMVP1	23/02/2022	07:41	Redwing	45	20	cutover bog and conifer plantation; flying	TS
CMVP2	23/02/2022	16:16	Redwing	35	25	buildings and artificial surfaces, treelines and improved agricultural grassland; flying, perching	TS
CMVP3	24/02/2022	08:28	Redwing	14	25	improved agricultural grassland and treelines; flying, perching	TS
CMVP4	24/02/2022	15:58	Redwing	140		amenity grassland (improved); perched	TS
CMVP5	25/02/2022	07:31	Redwing	5		hedgerows; calling	TS
CMVP1	01/03/2022	18:25	Redwing	1		scrub; calling	TS
CMVP2	02/03/2022	06:17	Redwing	38		hedgerows, improved agricultural grassland and buildings and artificial surfaces; calling, flying, perching	TS

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP3	02/03/2022	17:05	Redwing	7		treelines; perched, calling	TS
CMVP4	03/03/2022	06:48	Redwing	69		amenity grassland (improved); perched	TS
CMVP5	03/03/2022	16:11	Redwing	12		hedgerows; calling, perched	TS
CMVP3	27/03/2022	06:11	Redwing	1		hedgerows; calling	TS
CMVP4	27/03/2022	19:41	Redwing	4	20	amenity grassland (improved), improved agricultural grassland and buildings and artificial surfaces; flying	TS

Table 22 Stock Dove Survey Data

Vantage Point Surveys											
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
VP13	13/06/2022	19:50	Stock Dove	2	22	0	075	0	0	cutover bog and scrub; direct flight	EF

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP3	27/03/2022	08:16	Stock Dove	1	25	improved agricultural grassland; flying	TS

Table 23 Swift Survey Data

Vantage Point Surveys											
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
VP1	16/06/2021	17:21	Swift	2	25	25	0	0	0	lowland blanket bog; flying, pair flying across the site	SI
VP10	30/07/2021	11:09	Swift	4	30	0	30	0	0	cutover bog; flying and foraging, foraging near VP	SJ
VP8	31/07/2021	13:00	Swift	5	20	0	0	20	0	scrub; flying, small flock flying and foraging	SJ
VP11	11/05/2022	15:38	Swift	2	20	20	0	20	0	cutover bog; foraging	KS
VP16	26/06/2022	13:50	Swift	3	200	0	0	0	0	cutover bog and scrub; flying/feeding, left them after 200s	EF
VP13	14/07/2022	14:22	Swift	2	30	30	0	30	0	cutover bog; foraging	KS
VP5	25/07/2022	10:50	Swift	1	20	0	0	0	0	cutover bog and scrub; flying/hawking, lost view	EF
VP5	25/07/2022	13:05	Swift	2	45	0	0	0	0	cutover bog and scrub; flying/hawking, lost view	EF
VP5	25/07/2022	13:35	Swift	1	9	2	7	9	0	cutover bog and scrub; flying/hawking, lost behind trees	EF
VP5	25/07/2022	13:40	Swift	1	13	0	0	0	0	cutover bog and scrub; flying/hawking, overhead	EF
VP5	25/07/2022	14:10	Swift	2	51	0	0	0	0	cutover bog and scrub; flying/hawking, overhead	EF
VP5	25/07/2022	14:30	Swift	2	38	10	28	38	0	cutover bog and scrub; flying/hawking, lost behind trees	EF
VP3	26/07/2022	12:15	Swift	13	66	0	0	0	0	cutover bog and scrub; flying/hawking, lost view	EF
VP1	28/07/2022	10:20	Swift	2	67	0	0	0	0	cutover bog and scrub; flying/hawking, lost view	EF
VP1	28/07/2022	11:35	Swift	1	37	37	0	37	0	cutover bog and scrub; direct flight, went behind VP	EF
VP1	28/07/2022	12:20	Swift	1	25	0	25	25	0	cutover bog and scrub; flying/hawking, lost view	EF

Vantage Point Surveys											
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
VP2	29/07/2022	10:15	Swift	2	30	0	0	0	0	cutover bog and scrub; flying/hawking, left them to check another bird	EF
VP2	29/07/2022	11:45	Swift	1	10	0	10	10	0	cutover bog and scrub; direct flight, out over road	EF
VP2	29/07/2022	11:50	Swift	2	20	0	0	0	0	cutover bog and scrub; flying/hawking, lost view	EF
VP2	29/07/2022	12:15	Swift	1	10	10	0	10	0	cutover bog and scrub; flying/hawking, out over road	EF
VP2	29/07/2022	13:25	Swift	1	33	0	0	0	0	cutover bog and scrub; flying/hawking, out over road	EF
VP1	05/08/2022	08:48	Swift	9	45	45	0	45	0	cutover bog and heath; feeding	KS

Vantage Point Surveys (Non-Flight)						
VP	Date	Time	Species	Number	Habitat and activity	Surveyor
VP2	07/07/2021	15:20	Swift	2	cutover bog; flying low over the bog.	CR
VP2	03/08/2021	12:55	Swift	4	cutover bog; flying	CR
VP4	12/08/2021	09:18	Swift	2	cutover bog; flying	CR
VP5	16/08/2021	10:35	Swift	5	cutover bog; flying	CR
VP6	19/08/2021	17:23	Swift	1	cutover bog; flying	CR
VP12	12/08/2021	11:57	Swift	2	cutover bog, immature woodland and conifer plantation; foraging	KB
VP12	12/08/2021	12:45	Swift	4	cutover bog; foraging	KB
VP11	13/08/2021	12:54	Swift	2	raised bog and cutover bog; foraging	KB

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
05/05/2021		Swift			DW
04/06/2021		Swift			DW
02/07/2021		Swift			DW
07/07/2021		Swift			DW
28/06/2022	14:42	Swift	1	bogs and improved agricultural grassland; travelling (suitable nesting habitat; possible breeder)	NM
25/07/2022	15:45	Swift	1	cutover bog; foraging (suitable nesting habitat; possible breeder)	NM
29/07/2022	16:32	Swift	3	cutover bog; foraging (flyover; non-breeding)	NM

Incidental Observations						
Location	Date	Time	Species	Number	Habitat and activity	Surveyor
Vantage Point Survey, VP12 Screggan	18/06/2021	16:17	Swift	1	cutover bog and recolonising bare ground; flying feeding.	PW
Vantage Point Survey, VP12 Screggan	18/06/2021	16:17	Swift	1	cutover bog and recolonising bare ground; flying feeding.	PW
Breeding Raptor Survey, BRVP5	28/07/2021	11:12	Swift	2	improved agricultural grassland; feeding over fields	KS
Breeding Raptor Survey, T1	29/07/2021	09:46	Swift	1	improved agricultural grassland; feeding over field	KS
Breeding Raptor Survey, T4	30/07/2021	15:15	Swift	2	improved agricultural grassland; feeding over grass field	KS
Breeding Woodcock Survey, WKT9	09/05/2022	20:10	Swift	1	cutover bog; travelling	KS
Breeding Raptor Survey, RVP1	09/06/2022	16:52	Swift	2	improved agricultural grassland; feeding	KS
Breeding Raptor Survey, T8	09/06/2022	18:24	Swift	1	improved agricultural grassland; feeding	KS

Table 24 Yellowhammer Survey Data

Breeding Walkover Surveys					
Date	Time	Species	Number	Habitat and activity	Surveyor
08/07/2021	10:12	Yellowhammer	1	hedgerows; singing (singing male; possible breeder)	DW

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP4	13/05/2021	07:05	Yellowhammer	1		improved agricultural grassland; male singing	DM
CMVP3	19/12/2021	09:08	Yellowhammer	2		scrub and improved agricultural grassland; perched on the hawthorn near n52,	TS
CMVP4	03/03/2022	08:39	Yellowhammer	1		improved agricultural grassland; perched, singing	TS
CMVP4	27/03/2022	18:38	Yellowhammer	3		treelines and improved agricultural grassland; perched singing, flew e	TS
CMVP5	28/03/2022	07:56	Yellowhammer	1		hedgerows; singing	TS

Incidental Observations						
Location	Date	Time	Species	Number	Habitat and activity	Surveyor
Breeding Raptor Survey, T1	11/06/2020		Yellowhammer	1		PM
Breeding Raptor Survey, T6	16/06/2020		Yellowhammer	1		PM
Breeding Raptor Survey, transect 6	06/07/2021	15:04	Yellowhammer	1	hedgerows and improved agricultural grassland; singing	KB
Breeding Raptor Survey, transect 4	07/07/2021	15:58	Yellowhammer	1	hedgerows; singing	KB
Breeding Raptor Survey, transect 1	08/07/2021	16:23	Yellowhammer	1	hedgerows and arable crops; singing	KB
Breeding Raptor Survey, transect 2	13/07/2021	16:02	Yellowhammer	1	hedgerows; singing	KB
Breeding Raptor Survey, BRVP8	13/07/2021	17:00	Yellowhammer	1	hedgerows and arable crops; perched, male	KB

Incidental Observations						
Location	Date	Time	Species	Number	Habitat and activity	Surveyor
Breeding Raptor Survey, BRVP8	27/07/2021	09:49	Yellowhammer	4	hedgerows; multiple birds calling from hedges/wires	KS
Breeding Raptor Survey, T5	27/07/2021	12:42	Yellowhammer	1	hedgerows and improved agricultural grassland, singing	KS
Breeding Raptor Survey, T2	28/07/2021	15:54	Yellowhammer	1	improved agricultural grassland and hedgerows, singing	KS
Breeding Raptor Survey, T1	29/07/2021	10:15	Yellowhammer	1	hedgerows and improved agricultural grassland, singing	KS
Breeding Raptor Survey, BRVP2	29/07/2021	15:22	Yellowhammer	1	hedgerows and improved agricultural grassland, singing	KS
Breeding Raptor Survey, T4	30/07/2021	14:56	Yellowhammer	1	hedgerows; singing	KS
Breeding Raptor Survey, T4	30/07/2021	15:52	Yellowhammer	1	hedgerows; singing	KS
Wintering Golden Plover Survey, Rathkenna	31/03/2022	09:40	Yellowhammer	3	improved agricultural grassland; fly/perch/call	JM
Breeding Raptor Survey, RVP8	07/06/2022	14:40	Yellowhammer	4	treelines; singing	KS
Breeding Raptor Survey, T6	07/06/2022	15:40	Yellowhammer	2	improved agricultural grassland and treelines, singing	KS
Breeding Raptor Survey, RVP7	07/06/2022	16:54	Yellowhammer	2	improved agricultural grassland and treelines, singing	KS
Breeding Raptor Survey, T2	14/06/2022	16:41	Yellowhammer	1	improved agricultural grassland and hedgerows, singing	KS
Breeding Raptor Survey, RVP2	17/06/2022	12:32	Yellowhammer	1	hedgerows and improved agricultural grassland, singing	KS
Breeding Raptor Survey, T6	20/06/2022	17:36	Yellowhammer	1	hedgerows and improved agricultural grassland, singing	KS

Table 25 Grey Wagtail Survey Data

Connectivity Vantage Point Surveys							
CMVP	Date	Time	Species	Number	Duration of flight (s)	Habitat and activity	Surveyor
CMVP5	20/12/2021	10:31	Grey Wagtail	1	20	canals; flying, perched	TS
CMVP4	26/01/2022	16:05	Grey Wagtail	1	20	tilled land; flying, perched	TS
CMVP5	03/03/2022	16:53	Grey Wagtail	2	15	canals, drainage ditches and amenity grassland (improved); flying perching	TS

Incidental Observations							
Location	Date	Time	Species	Number	Habitat and activity	Surveyor	
Waterbird Distribution Survey, river Deel 2	27/08/2021	11:47	Grey Wagtail	2	watercourses; flying over water	TR	
Connectivity Vantage Point Survey, near bridge on the canal	21/11/2021	16:05	Grey Wagtail	2	buildings and artificial surfaces and canals; flying hunting	TS	
Wintering Golden Plover Survey, Lough Owel	20/01/2022	10:15	Grey Wagtail	1	lakes and ponds; feeding and travelling	JM	
Waterbird Distribution Survey, river Deel	28/03/2022	09:30	Grey Wagtail	1	depositing/lowland rivers; nest building	DM	
Waterbird Distribution Survey, river Deel	09/05/2022	14:00	Grey Wagtail	1	depositing/lowland rivers; feeding	DM	