



APPENDIX 7-1

SURVEY EFFORT

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1.

SURVEY EFFORT

Table 7 - 1 - 1 Vantage point survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
26/10/2023	Vantage Point Survey	VP1	3:00 starting at 12:34	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
26/10/2023	Vantage Point Survey	VP1	2:00 starting at 17:04	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
26/10/2023	Vantage Point Survey	VP1	1:00 starting at 16:04	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
27/10/2023	Vantage Point Survey	VP2	2:00 starting at 08:12	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
27/10/2023	Vantage Point Survey	VP2	1:00 starting at 10:12	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
27/10/2023	Vantage Point Survey	VP2	2:00 starting at 16:04	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
27/10/2023	Vantage Point Survey	VP2	1:00 starting at 18:04	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
01/11/2023	Vantage Point Survey	VP3	1:00 starting at 16:53	Visibility: good; Wind speed and direction: fresh breeze E; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
01/11/2023	Vantage Point Survey	VP3	1:00 starting at 15:53	Visibility: good; Wind speed and direction: strong breeze E; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	No target species	LD
01/11/2023	Vantage Point Survey	VP3	1:00 starting at 17:53	Visibility: good; Wind speed and direction: strong breeze E; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
02/11/2023	Vantage Point Survey	VP3	2:00 starting at 11:01	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 33-66% <150m; Rain: light showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
02/11/2023	Vantage Point Survey	VP3	1:00 starting at 13:01	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
03/11/2023	Vantage Point Survey	VP1	1:00 starting at 06:40	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
03/11/2023	Vantage Point Survey	VP1	1:00 starting at 07:40	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
03/11/2023	Vantage Point Survey	VP1	1:00 starting at 08:40	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
06/11/2023	Vantage Point Survey	VP2	1:00 starting at 11:32	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
06/11/2023	Vantage Point Survey	VP2	2:00 starting at 12:32	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
08/11/2023	Vantage Point Survey	VP4	1:00 starting at 13:17	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD
10/11/2023	Vantage Point Survey	VP4	2:00 starting at 14:34	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	no observations	LD
10/11/2023	Vantage Point Survey	VP4	1:00 starting at 16:34	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD
14/11/2023	Vantage Point Survey	VP1	1:00 starting at 11:16	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	No target species	LD
14/11/2023	Vantage Point Survey	VP1	1:00 starting at 12:16	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
14/11/2023	Vantage Point Survey	VP1	1:00 starting at 13:16	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
28/11/2023	Vantage Point Survey	VP5	2:00 starting at 12:12	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD
28/11/2023	Vantage Point Survey	VP5	1:00 starting at 11:12	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none	No target species recorded	LD
29/11/2023	Vantage Point Survey	VP2	1:00 starting at 11:41	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD
29/11/2023	Vantage Point Survey	VP2	1:00 starting at 12:41	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD
29/11/2023	Vantage Point Survey	VP2	3:00 starting at 14:09	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD
30/11/2023	Vantage Point Survey	VP4	2:00 starting at 11:38	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD
30/11/2023	Vantage Point Survey	VP4	1:00 starting at 10:38	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD
01/12/2023	Vantage Point Survey	VP5	2:00 starting at 14:08	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	No target species	LD
01/12/2023	Vantage Point Survey	VP5	2:00 starting at 14:08	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: on ground	No target species	LD
01/12/2023	Vantage Point Survey	VP5	1:00 starting at 16:08	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
01/12/2023	Vantage Point Survey	VP5	1:00 starting at 16:08	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: on ground		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
05/12/2023	Vantage Point Survey	VP2	2:00 starting at 10:35	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: on ground	No target species	LD
05/12/2023	Vantage Point Survey	VP2	1:00 starting at 12:35	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: on ground		LD
05/12/2023	Vantage Point Survey	VP2	2:00 starting at 14:05	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: on ground		LD
05/12/2023	Vantage Point Survey	VP2	1:00 starting at 16:05	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: on ground		LD
06/12/2023	Vantage Point Survey	VP4	2:00 starting at 08:47	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
06/12/2023	Vantage Point Survey	VP4	1:00 starting at 07:47	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
06/12/2023	Vantage Point Survey	VP5	2:00 starting at 11:01	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No target species	LD
06/12/2023	Vantage Point Survey	VP5	1:00 starting at 13:01	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
07/12/2023	Vantage Point Survey	VP3	2:00 starting at 14:04	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
07/12/2023	Vantage Point Survey	VP3	1:00 starting at 16:04	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
08/12/2023	Vantage Point Survey	VP3	2:00 starting at 08:42	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/12/2023	Vantage Point Survey	VP3	1:00 starting at 07:42	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
11/12/2023	Vantage Point Survey	VP3	2:00 starting at 11:31	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
11/12/2023	Vantage Point Survey	VP3	1:00 starting at 10:31	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	disturbance from two farmers coming to feed the livestock	LD
12/12/2023	Vantage Point Survey	VP1	2:00 starting at 11:48	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
12/12/2023	Vantage Point Survey	VP1	1:00 starting at 10:48	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
15/12/2023	Vantage Point Survey	VP3	1:00 starting at 08:02	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	No target species	LD
15/12/2023	Vantage Point Survey	VP3	1:00 starting at 09:02	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
15/12/2023	Vantage Point Survey	VP3	1:00 starting at 10:02	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
16/12/2023	Vantage Point Survey	VP1	2:00 starting at 14:03	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
16/12/2023	Vantage Point Survey	VP1	1:00 starting at 16:03	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
20/12/2023	Vantage Point Survey	VP6	3:00 starting at 07:45	Visibility: limited; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		NM
20/12/2023	Vantage Point Survey	VP4	1:00 starting at 15:02	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/12/2023	Vantage Point Survey	VP4	1:00 starting at 14:02	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	No target species	LD
20/12/2023	Vantage Point Survey	VP4	1:00 starting at 16:02	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
20/12/2023	Vantage Point Survey	VP6	3:00 starting at 10:45	Visibility: limited; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		NM
21/12/2023	Vantage Point Survey	VP6	3:00 starting at 11:10	Visibility: limited; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		NM
21/12/2023	Vantage Point Survey	VP6	3:00 starting at 14:10	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		NM
22/12/2023	Vantage Point Survey	VP1	3:00 starting at 07:47	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		NM
22/12/2023	Vantage Point Survey	VP1	3:00 starting at 10:47	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		NM
03/01/2024	Vantage Point Survey	VP2	1:00 starting at 07:54	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Occasional showers and quiet here today. No target species were observed.	LD
03/01/2024	Vantage Point Survey	VP2	2:00 starting at 08:54	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
04/01/2024	Vantage Point Survey	VP4	2:00 starting at 11:22	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Light drizzle at times and a buzzard heard calling. A kestrel was seen on the way to the vantage point. See incidentals. A flock of eight reed buntings were also present.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
04/01/2024	Vantage Point Survey	VP4	1:00 starting at 13:22	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
08/01/2024	Vantage Point Survey	VP1	2:00 starting at 07:52	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: heavy; Snow: none	Sub-zero and very little activity. No target species seen today. Just a woodcock on the track in.	LD
08/01/2024	Vantage Point Survey	VP1	1:00 starting at 09:52	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: heavy; Snow: none		LD
11/01/2024	Vantage Point Survey	VP1	1:00 starting at 12:15	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
11/01/2024	Vantage Point Survey	VP1	1:00 starting at 08:45	Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
11/01/2024	Vantage Point Survey	VP1	1:00 starting at 09:45	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
11/01/2024	Vantage Point Survey	VP1	1:00 starting at 07:45	Visibility: poor; Wind speed and direction: light air S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
11/01/2024	Vantage Point Survey	VP1	1:00 starting at 11:15	Visibility: moderate; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
11/01/2024	Vantage Point Survey	VP1	1:00 starting at 13:15	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
16/01/2024	Vantage Point Survey	VP3	2:00 starting at 10:56	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: on ground	An occasional wintery shower, but bright in between. A male hen harrier was observed briefly travelling quickly to the south-east of the vantage point.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/01/2024	Vantage Point Survey	VP3	1:00 starting at 12:56	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: on ground		LD
16/01/2024	Vantage Point Survey	VP6	1:00 starting at 13:00	Visibility: poor; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: on ground		CM
16/01/2024	Vantage Point Survey	VP6	1:00 starting at 14:40	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
16/01/2024	Vantage Point Survey	VP6	1:00 starting at 15:40	Visibility: moderate; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		CM
16/01/2024	Vantage Point Survey	VP6	1:00 starting at 11:00	Visibility: poor; Wind speed and direction: light air NW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: on ground		CM
16/01/2024	Vantage Point Survey	VP6	1:00 starting at 12:00	Visibility: poor; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: on ground		CM
16/01/2024	Vantage Point Survey	VP6	1:00 starting at 16:40	Visibility: poor; Wind speed and direction: moderate breeze W; Cloud cover and height: 0-33% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
17/01/2024	Vantage Point Survey	VP3	1:00 starting at 12:15	Visibility: moderate; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: on ground	Clear but low sun obstructing portion of viewshed. Tree felling on viewshed.	CM
17/01/2024	Vantage Point Survey	VP3	1:00 starting at 16:45	Visibility: limited; Wind speed and direction: light air N; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: none	Dusk.	CM
17/01/2024	Vantage Point Survey	VP3	1:00 starting at 11:15	Visibility: moderate; Wind speed and direction: light air NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: on ground	Clear but low sun obstructing portion of viewshed	CM
17/01/2024	Vantage Point Survey	VP3	1:00 starting at 13:15	Visibility: moderate; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: falling	Low sun obstructing portion of viewshed. Occasional snowfall. Tree felling on viewshed.	CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/01/2024	Vantage Point Survey	VP3	1:00 starting at 14:45	Visibility: moderate; Wind speed and direction: light air NW; Cloud cover and height: 0-33% <150m; Rain: none; Frost: light; Snow: none	Low sun obstructing portion of views shed. Tree felling on views shed.	CM
17/01/2024	Vantage Point Survey	VP3	1:00 starting at 15:45	Visibility: poor; Wind speed and direction: light air NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: falling		CM
22/01/2024	Vantage Point Survey	VP2	2:00 starting at 10:55	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Frequent showers, but bright in between. Very quiet, with no target species seen.	LD
22/01/2024	Vantage Point Survey	VP2	1:00 starting at 12:55	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
24/01/2024	Vantage Point Survey	VP2	1:00 starting at 07:40	Visibility: poor; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
24/01/2024	Vantage Point Survey	VP2	1:00 starting at 08:40	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Two people planting trees on site inside views shed, no machinery in use.	CM
24/01/2024	Vantage Point Survey	VP2	1:00 starting at 09:40	Visibility: poor; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	Two people planting trees on site inside views shed, no machinery in use.	CM
24/01/2024	Vantage Point Survey	VP2	1:00 starting at 11:10	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Two people planting trees on site inside views shed, no machinery in use.	CM
24/01/2024	Vantage Point Survey	VP2	1:00 starting at 12:10	Visibility: poor; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
24/01/2024	Vantage Point Survey	VP2	1:00 starting at 13:10	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Visibility poor in showers.	CM
25/01/2024	Vantage Point Survey	VP5	3:00 starting at 07:30	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Dawn survey. Sunrise - 08:28	NM
25/01/2024	Vantage Point Survey	VP4	1:00 starting at 13:00	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
25/01/2024	Vantage Point Survey	VP4	1:00 starting at 07:30	Visibility: limited; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		CM
25/01/2024	Vantage Point Survey	VP4	1:00 starting at 09:30	Visibility: not recorded; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
25/01/2024	Vantage Point Survey	VP4	1:00 starting at 11:00	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		CM
25/01/2024	Vantage Point Survey	VP4	1:00 starting at 08:30	Visibility: poor; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		CM
25/01/2024	Vantage Point Survey	VP4	1:00 starting at 12:00	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
25/01/2024	Vantage Point Survey	VP5	3:00 starting at 10:45	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 33-66% >500m; Rain: drizzle; Frost: none; Snow: none		NM
26/01/2024	Vantage Point Survey	VP6	3:00 starting at 07:28	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Dawn survey. Sunrise - 08:27	NM
26/01/2024	Vantage Point Survey	VP6	3:00 starting at 10:45	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 0-33% >500m; Rain: drizzle; Frost: none; Snow: none		NM
29/01/2024	Vantage Point Survey	VP1	2:00 starting at 09:11	Visibility: good; Wind speed and direction: light air not recorded; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: heavy; Snow: none	Very calm and quiet. Just a buzzard seen further off to the east.	LD
29/01/2024	Vantage Point Survey	VP1	1:00 starting at 11:11	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: heavy; Snow: none		LD
30/01/2024	Vantage Point Survey	VP3	1:00 starting at 09:27	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: none		LD
30/01/2024	Vantage Point Survey	VP3	1:00 starting at 08:27	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
30/01/2024	Vantage Point Survey	VP3	1:00 starting at 07:27	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: light; Snow: none	Fine rain at first, clearing. A woodcock flew from farmland fields, and a kestrel seen travelling to the south.	LD
30/01/2024	Vantage Point Survey	VP5	1:00 starting at 13:10	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
30/01/2024	Vantage Point Survey	VP5	1:00 starting at 09:40	Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
30/01/2024	Vantage Point Survey	VP5	1:00 starting at 11:10	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
30/01/2024	Vantage Point Survey	VP5	1:00 starting at 07:40	Visibility: limited; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		CM
30/01/2024	Vantage Point Survey	VP5	1:00 starting at 08:40	Visibility: moderate; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
30/01/2024	Vantage Point Survey	VP5	1:00 starting at 12:10	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
31/01/2024	Vantage Point Survey	VP4	1:00 starting at 08:26	Visibility: good; Wind speed and direction: fresh breeze not recorded; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
31/01/2024	Vantage Point Survey	VP4	1:00 starting at 09:26	Visibility: good; Wind speed and direction: strong breeze not recorded; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
31/01/2024	Vantage Point Survey	VP4	1:00 starting at 07:26	Visibility: good; Wind speed and direction: moderate breeze not recorded; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Winds strengthening, although a snipe was heard calling in flight before dawn. An adult buzzard, and a sparrowhawk was also seen here again.	LD
01/02/2024	Vantage Point Survey	VP3	1:00 starting at 13:45	Visibility: moderate; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
01/02/2024	Vantage Point Survey	VP3	1:00 starting at 15:15	Visibility: poor; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	Mist developing.	CM
01/02/2024	Vantage Point Survey	VP3	1:00 starting at 11:45	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: not recorded; Frost: not recorded; Snow: not recorded	Tree felling in operation inside viewshed.	CM
01/02/2024	Vantage Point Survey	VP3	1:00 starting at 12:45	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Tree felling in operation inside viewshed.	CM
01/02/2024	Vantage Point Survey	VP3	1:00 starting at 16:15	Visibility: poor; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	Timber trucks being loaded in viewshed.	CM
01/02/2024	Vantage Point Survey	VP3	1:00 starting at 17:15	Visibility: limited; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	Timber trucks being loaded in viewshed.	CM
07/02/2024	Vantage Point Survey	VP6	3:00 starting at 12:00	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Timber trucks being loaded in viewshed.	CM
07/02/2024	Vantage Point Survey	VP6	2:00 starting at 15:30	Visibility: moderate; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
07/02/2024	Vantage Point Survey	VP6	1:00 starting at 17:30	Visibility: poor; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
09/02/2024	Vantage Point Survey	VP5	2:00 starting at 12:10	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: on ground		CM
09/02/2024	Vantage Point Survey	VP5	2:00 starting at 15:40	Visibility: moderate; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: on ground		CM
09/02/2024	Vantage Point Survey	VP5	1:00 starting at 14:10	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: on ground		CM
09/02/2024	Vantage Point Survey	VP5	1:00 starting at 17:40	Visibility: limited; Wind speed and direction: not recorded E; Cloud cover and height: not recorded not recorded; Rain: drizzle; Frost: none; Snow: on ground		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/02/2024	Vantage Point Survey	VP2	3:00 starting at 12:10	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
13/02/2024	Vantage Point Survey	VP2	2:00 starting at 15:40	Visibility: moderate; Wind speed and direction: light air S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
13/02/2024	Vantage Point Survey	VP2	1:00 starting at 17:40	Visibility: limited; Wind speed and direction: light air S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Fog developing after sunset.	CM
14/02/2024	Vantage Point Survey	VP4	3:40 starting at 15:00	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		CM
14/02/2024	Vantage Point Survey	VP1	1:00 starting at 12:20	Visibility: limited; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Heavy mist. Survey postponed.	CM
15/02/2024	Vantage Point Survey	VP1	3:00 starting at 13:10	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
15/02/2024	Vantage Point Survey	VP1	1:00 starting at 16:40	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
15/02/2024	Vantage Point Survey	VP1	1:00 starting at 17:40	Visibility: limited; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
28/02/2024	Vantage Point Survey	VP4	2:20 starting at 10:40	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
13/03/2024	Vantage Point Survey	VP5	2:45 starting at 09:55	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
13/03/2024	Vantage Point Survey	VP5	2:20 starting at 06:10	Visibility: poor; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
13/03/2024	Vantage Point Survey	VP5	0:55 starting at 08:30	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
19/03/2024	Vantage Point Survey	VP6	3:00 starting at 05:45	Visibility: poor; Wind speed and direction: light air NW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		CM
19/03/2024	Vantage Point Survey	VP6	2:00 starting at 09:15	Visibility: moderate; Wind speed and direction: light air NW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/03/2024	Vantage Point Survey	VP6	1:00 starting at 11:15	Visibility: moderate; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
20/03/2024	Vantage Point Survey	VP2	2:00 starting at 05:40	Visibility: moderate; Wind speed and direction: light air N; Cloud cover and height: 33-66% >500m; Rain: drizzle; Frost: none; Snow: none		CM
20/03/2024	Vantage Point Survey	VP2	1:00 starting at 07:40	Visibility: poor; Wind speed and direction: light breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Low sun and rising moisture led to poor visibility	CM
20/03/2024	Vantage Point Survey	VP2	1:00 starting at 09:10	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
20/03/2024	Vantage Point Survey	VP2	2:00 starting at 10:10	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
21/03/2024	Vantage Point Survey	VP1	3:00 starting at 09:40	Visibility: limited; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		CM
21/03/2024	Vantage Point Survey	VP3	3:00 starting at 05:45	Visibility: limited; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		CM
25/03/2024	Vantage Point Survey	VP1	2:00 starting at 05:30	Visibility: limited; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		CM
25/03/2024	Vantage Point Survey	VP1	1:00 starting at 07:30	Visibility: poor; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
25/03/2024	Vantage Point Survey	VP3	2:00 starting at 10:30	Visibility: poor; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
25/03/2024	Vantage Point Survey	VP3	1:00 starting at 09:30	Visibility: moderate; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
27/03/2024	Vantage Point Survey	VP4	2:00 starting at 09:30	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
27/03/2024	Vantage Point Survey	VP4	2:00 starting at 05:30	Visibility: poor; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
27/03/2024	Vantage Point Survey	VP4	1:00 starting at 07:30	Visibility: moderate; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
27/03/2024	Vantage Point Survey	VP4	1:00 starting at 11:30	Visibility: poor; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		CM
03/04/2024	Vantage Point Survey	VP1	2:00 starting at 18:15	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Occasional light showers or drizzle. Very quiet, with just a woodcock seen on the way out.	LD
03/04/2024	Vantage Point Survey	VP1	1:00 starting at 20:15	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
04/04/2024	Vantage Point Survey	VP2	2:00 starting at 18:21	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Squally showers, but bright spells in between. A few meadow pipits and a pair of grey wagtails observed here today. No raptors present.	LD
04/04/2024	Vantage Point Survey	VP2	1:00 starting at 20:21	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
04/04/2024	Vantage Point Survey	VP1	2:00 starting at 08:42	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		LD
04/04/2024	Vantage Point Survey	VP1	1:00 starting at 07:42	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	Light rain at times and quiet here. A buzzard was observed later a long way off to the east.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
09/04/2024	Vantage Point Survey	VP2	1:00 starting at 15:04	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Squally showers, but bright spells in between. A few meadow pipits and a pair of grey wagtails observed here today. No raptors present.	LD
09/04/2024	Vantage Point Survey	VP2	2:00 starting at 16:04	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
25/04/2024	Vantage Point Survey	VP6	3:00 starting at 14:30	Visibility: moderate; Wind speed and direction: gentle breeze NNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JD
25/04/2024	Vantage Point Survey	VP6	3:00 starting at 18:00	Visibility: moderate; Wind speed and direction: moderate breeze NNW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JD
26/04/2024	Vantage Point Survey	VP3	3:00 starting at 14:30	Visibility: moderate; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		JD
26/04/2024	Vantage Point Survey	VP3	3:00 starting at 18:00	Visibility: moderate; Wind speed and direction: moderate breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		JD
29/04/2024	Vantage Point Survey	VP5	3:00 starting at 14:45	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none		JD
29/04/2024	Vantage Point Survey	VP5	3:00 starting at 18:15	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JD
29/04/2024	Vantage Point Survey	VP2	1:00 starting at 14:34	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Persistent morning rain. Followed by showers and an increasing westerly wind. kestrel and grey wagtail seen travelling through the clearing.	LD
29/04/2024	Vantage Point Survey	VP2	1:00 starting at 15:34	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
29/04/2024	Vantage Point Survey	VP2	1:00 starting at 16:34	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
30/04/2024	Vantage Point Survey	VP4	3:00 starting at 13:45	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none		JD
30/04/2024	Vantage Point Survey	VP4	3:00 starting at 16:45	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		JD
07/05/2024	Vantage Point Survey	VP1	2:00 starting at 10:12	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Hazy sunshine and quiet. Sparrowhawk seen in flight plus a buzzard further away to the east. Pine marten seen on the way to the vantage point.	LD
07/05/2024	Vantage Point Survey	VP1	1:00 starting at 12:12	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
08/05/2024	Vantage Point Survey	VP2	2:00 starting at 12:04	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Overcast and quiet. A few meadow pipits and grey wagtail here again, but that was all today.	LD
08/05/2024	Vantage Point Survey	VP2	1:00 starting at 14:04	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
15/05/2024	Vantage Point Survey	VP3	3:00 starting at 04:30	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		FOD
15/05/2024	Vantage Point Survey	VP3	3:00 starting at 08:00	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		FOD
16/05/2024	Vantage Point Survey	VP6	3:00 starting at 04:30	Visibility: good; Wind speed and direction: light air NNW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		FOD
16/05/2024	Vantage Point Survey	VP6	3:00 starting at 08:00	Visibility: good; Wind speed and direction: light air NNW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		FOD
17/05/2024	Vantage Point Survey	VP5	3:00 starting at 04:30	Visibility: none; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		FOD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/05/2024	Vantage Point Survey	VP5	3:00 starting at 08:00	Visibility: poor; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		FOD
20/05/2024	Vantage Point Survey	VP4	3:00 starting at 04:30	Visibility: poor; Wind speed and direction: calm N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		FOD
20/05/2024	Vantage Point Survey	VP4	3:00 starting at 08:00	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		FOD
21/05/2024	Vantage Point Survey	VP2	1:00 starting at 04:15	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Very calm and quiet. woodcock flushed on the way in, not far from the vantage point. Then a grey wagtail close to VP5 on the way out.	LD
21/05/2024	Vantage Point Survey	VP2	2:00 starting at 05:15	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
23/05/2024	Vantage Point Survey	VP1	2:00 starting at 05:11	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
23/05/2024	Vantage Point Survey	VP1	1:00 starting at 04:11	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	A brisk breeze on the elevated vantage point. A snipe was seen before dawn. A cormorant away on Lough Mourne, plus three hares and three sika deer hinds on the way in and out.	LD
18/06/2024	Vantage Point Survey	VP1	3:00 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze NNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		FOD
18/06/2024	Vantage Point Survey	VP1	3:00 starting at 18:00	Visibility: good; Wind speed and direction: moderate breeze NNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		FOD
19/06/2024	Vantage Point Survey	VP3	3:00 starting at 11:00	Visibility: good; Wind speed and direction: light air NNW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		FOD
19/06/2024	Vantage Point Survey	VP3	3:00 starting at 07:30	Visibility: good; Wind speed and direction: light air NNW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		FOD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/06/2024	Vantage Point Survey	VP2	3:00 starting at 07:00	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		FOD
20/06/2024	Vantage Point Survey	VP2	3:00 starting at 10:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		FOD
24/06/2024	Vantage Point Survey	VP4	3:00 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		FOD
24/06/2024	Vantage Point Survey	VP4	3:00 starting at 17:30	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		FOD
25/06/2024	Vantage Point Survey	VP5	3:00 starting at 14:00	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		FOD
25/06/2024	Vantage Point Survey	VP5	3:00 starting at 17:30	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		FOD
26/06/2024	Vantage Point Survey	VP6	3:00 starting at 11:00	Visibility: good; Wind speed and direction: light air ESE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		FOD
26/06/2024	Vantage Point Survey	VP6	3:00 starting at 07:30	Visibility: good; Wind speed and direction: light air ESE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		FOD
01/07/2024	Vantage Point Survey	VP3	2:00 starting at 11:12	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Overcast and clearing. Male and female hen harrier observed once again hunting around the nest site.	LD
01/07/2024	Vantage Point Survey	VP3	1:00 starting at 13:12	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
15/07/2024	Vantage Point Survey	VP3	2:00 starting at 08:03	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: drizzle; Frost: none; Snow: none	Calm, bright, clear and quiet. buzzard observed away to the east, where a pair and juvenile have been observed.	LD
15/07/2024	Vantage Point Survey	VP3	1:00 starting at 10:03	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/07/2024	Vantage Point Survey	VP4	3:00 starting at 10:20	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		JD
17/07/2024	Vantage Point Survey	VP4	3:00 starting at 13:50	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		JD
18/07/2024	Vantage Point Survey	VP5	3:00 starting at 10:30	Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JD
18/07/2024	Vantage Point Survey	VP5	3:00 starting at 14:00	Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		JD
23/07/2024	Vantage Point Survey	VP1	3:00 starting at 13:30	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		JD
23/07/2024	Vantage Point Survey	VP1	3:00 starting at 10:00	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		JD
24/07/2024	Vantage Point Survey	VP2	3:00 starting at 10:00	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		JD
24/07/2024	Vantage Point Survey	VP2	3:00 starting at 13:30	Visibility: moderate; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		JD
25/07/2024	Vantage Point Survey	VP6	3:00 starting at 10:00	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		JD
26/07/2024	Vantage Point Survey	VP6	3:00 starting at 13:30	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		JD
12/08/2024	Vantage Point Survey	VP3	3:00 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		FOD
12/08/2024	Vantage Point Survey	VP3	3:00 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		FOD
13/08/2024	Vantage Point Survey	VP2	3:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		FOD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/08/2024	Vantage Point Survey	VP2	3:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		FOD
14/08/2024	Vantage Point Survey	VP4	3:00 starting at 09:00	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		FOD
14/08/2024	Vantage Point Survey	VP4	3:00 starting at 13:30	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		FOD
15/08/2024	Vantage Point Survey	VP5	3:00 starting at 09:00	Visibility: good; Wind speed and direction: light breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		FOD
15/08/2024	Vantage Point Survey	VP5	3:00 starting at 13:30	Visibility: good; Wind speed and direction: light breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		FOD
27/08/2024	Vantage Point Survey	VP1	3:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		FOD
27/08/2024	Vantage Point Survey	VP1	3:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		FOD
29/08/2024	Vantage Point Survey	VP6	3:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		FOD
29/08/2024	Vantage Point Survey	VP6	3:00 starting at 13:30	Visibility: good; Wind speed and direction: light air WSW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		FOD
02/09/2024	Vantage Point Survey	VP1	2:00 starting at 09:14	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Light rain or drizzle on and off. Just a few meadow pipits and a buzzard seen further away to the east.	LD
02/09/2024	Vantage Point Survey	VP1	1:00 starting at 11:14	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
02/09/2024	Vantage Point Survey	VP2	1:00 starting at 05:41	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Light rain or drizzle on and off. grey wagtail present here again. Plus a fleeting view of the kestrel. Otherwise few species seen.	LD
02/09/2024	Vantage Point Survey	VP2	2:00 starting at 06:41	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
09/09/2024	Vantage Point Survey	VP2	1:00 starting at 08:58	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Overcast and quiet. Just a few meadow pipits around the fringe of forestry. Winds building from the west.	LD
09/09/2024	Vantage Point Survey	VP2	1:00 starting at 09:58	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
09/09/2024	Vantage Point Survey	VP2	1:00 starting at 10:58	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
16/09/2024	Vantage Point Survey	VP6	3:00 starting at 06:00	Visibility: poor; Wind speed and direction: light air S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Patches of mist passing.	CM
16/09/2024	Vantage Point Survey	VP6	1:30 starting at 11:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
16/09/2024	Vantage Point Survey	VP6	1:30 starting at 09:30	Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
20/09/2024	Vantage Point Survey	VP3	3:00 starting at 06:15	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Low cloud for first hour of survey.	NS
20/09/2024	Vantage Point Survey	VP3	3:00 starting at 09:45	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		NS
24/09/2024	Vantage Point Survey	VP4	3:00 starting at 06:20	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		NS
24/09/2024	Vantage Point Survey	VP4	3:00 starting at 09:50	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		NS

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
26/09/2024	Vantage Point Survey	VP1	3:00 starting at 06:25	Visibility: moderate; Wind speed and direction: fresh breeze NNE; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none	Persistent rain. No target species seen.	NS
30/09/2024	Vantage Point Survey	VP5	3:00 starting at 10:20	Visibility: poor; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		CM
30/09/2024	Vantage Point Survey	VP5	1:40 starting at 06:50	Visibility: limited; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		CM
30/09/2024	Vantage Point Survey	VP5	1:20 starting at 08:30	Visibility: poor; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
02/10/2024	Vantage Point Survey	VP4	3:00 starting at 13:45	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
02/10/2024	Vantage Point Survey	VP4	3:00 starting at 17:15	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
08/10/2024	Vantage Point Survey	VP3	3:00 starting at 13:55	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Lorries loading timber in viewshed, centre.	CM
08/10/2024	Vantage Point Survey	VP3	3:00 starting at 17:25	Visibility: moderate; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
09/10/2024	Vantage Point Survey	VP1	3:00 starting at 13:40	Visibility: poor; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		CM
09/10/2024	Vantage Point Survey	VP1	3:00 starting at 17:10	Visibility: poor; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
10/10/2024	Vantage Point Survey	VP2	3:00 starting at 13:40	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
10/10/2024	Vantage Point Survey	VP2	3:00 starting at 17:10	Visibility: moderate; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: drizzle; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/10/2024	Vantage Point Survey	VP6	3:00 starting at 13:00	Visibility: moderate; Wind speed and direction: light breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Entirely overcast. Visibility poor at distance. Mild and humid, 10 - 15°C. Light and persistent showers coming and going.	NM
16/10/2024	Vantage Point Survey	VP6	1:35 starting at 17:55	Visibility: good; Wind speed and direction: light air SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Clearing abruptly, remaining so for remainder. Still and calm. Dusk survey. Sunset: 18:29	NM
16/10/2024	Vantage Point Survey	VP6	1:25 starting at 16:30	Visibility: limited; Wind speed and direction: gentle breeze SSE; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none	Heavy rain for 90 mins, visibility dropping considerably	NM
18/10/2024	Vantage Point Survey	VP5	3:00 starting at 13:00	Visibility: poor; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none	Persistent rain, often heavy. Blustery. Mild, 11 - 14°C	NM
18/10/2024	Vantage Point Survey	VP5	3:00 starting at 16:25	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Wind dropping somewhat in evening, rain easing off but showers still blowing through. Dusk survey. Sunset - 18:24	NM
06/11/2024	Vantage Point Survey	VP1	1:10 starting at 06:50	Visibility: poor; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
06/11/2024	Vantage Point Survey	VP1	0:50 starting at 08:00	Visibility: limited; Wind speed and direction: light air S; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	Paused due to steadily deteriorating visibility.	CM
07/11/2024	Vantage Point Survey	VP6	3:00 starting at 10:15	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Patchy sunny and brighter spells. Fresh breeze.	NM
07/11/2024	Vantage Point Survey	VP6	3:00 starting at 06:50	Visibility: good; Wind speed and direction: gentle breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Entirely overcast but bright, no rain. Gusty breeze, building. Mild but cool in breeze, 10 - 14°C. Relatively sheltered in lee of forestry. Dawn survey. Sunrise - 07:47	NM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/11/2024	Vantage Point Survey	VP4	3:00 starting at 06:55	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Slight mist early but clearing rapidly. Clear and bright. Dawn survey. Sunrise - 07:55	NM
11/11/2024	Vantage Point Survey	VP4	3:00 starting at 10:20	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Cool, 5 - 10°C. Very calm throughout	NM
13/11/2024	Vantage Point Survey	VP2	3:00 starting at 07:00	Visibility: moderate; Wind speed and direction: light breeze ENE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		NS
13/11/2024	Vantage Point Survey	VP2	3:00 starting at 10:30	Visibility: moderate; Wind speed and direction: light breeze ENE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		NS
14/11/2024	Vantage Point Survey	VP1	3:00 starting at 11:25	Visibility: moderate; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
14/11/2024	Vantage Point Survey	VP1	1:00 starting at 14:55	Visibility: poor; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
25/11/2024	Vantage Point Survey	VP5	3:00 starting at 07:22	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none	Sunny spells and scattered blustery showers. Milder, 5 - 8°C. Sheltered within forestry. Dawn survey. Sunrise - 08:22	NM
25/11/2024	Vantage Point Survey	VP5	3:00 starting at 10:50	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none	Wind gradually dying	NM
27/11/2024	Vantage Point Survey	VP3	3:00 starting at 07:25	Visibility: poor; Wind speed and direction: light air WNW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none	Heavy mist in morning, poor visibility. -3 - 4°C throughout. Dawn survey. Sunrise - 08:25	NM
27/11/2024	Vantage Point Survey	VP3	3:00 starting at 10:50	Visibility: good; Wind speed and direction: calm WNW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none	Mist clearing abruptly at ~10am. Remaining blue and hazy. Brilliant sunshine	NM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
03/12/2024	Vantage Point Survey	VP5	3:00 starting at 10:40	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: light; Snow: none	Fair but cloudy, cool breeze. Sheltered within forestry.	NM
03/12/2024	Vantage Point Survey	VP5	3:00 starting at 14:05	Visibility: poor; Wind speed and direction: light breeze SSE; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none	Wind gradually dropping. Abrupt change around 2pm - cloud dropping, cold and wet, persistent light rain. 3 - 6°C throughout. Dusk survey. Sunset - 16:07	NM
10/12/2024	Vantage Point Survey	VP2	3:00 starting at 11:30	Visibility: moderate; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: heavy; Snow: none		CM
10/12/2024	Vantage Point Survey	VP2	2:00 starting at 15:10	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: light; Snow: none		CM
11/12/2024	Vantage Point Survey	VP6	3:00 starting at 10:40	Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: none	Cold, entirely overcast but fair. Mist blowing through until lunchtime. 1 - 4°C	NM
11/12/2024	Vantage Point Survey	VP6	3:00 starting at 14:05	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: light; Snow: none	Dusk survey. Sunset - 16:04	NM
12/12/2024	Vantage Point Survey	VP3	3:00 starting at 10:40	Visibility: good; Wind speed and direction: light breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Cold and fair, 2 - 4°C. Entirely overcast and grey. Hazy visibility at great distance	NM
12/12/2024	Vantage Point Survey	VP3	3:00 starting at 14:05	Visibility: good; Wind speed and direction: light air SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No change, breeze dropping away. Dusk survey. Sunset - 16:04	NM
16/12/2024	Vantage Point Survey	VP2	1:00 starting at 13:40	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
17/12/2024	Vantage Point Survey	VP4	3:00 starting at 10:40	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Entirely overcast throughout. Mild and humid, 8 - 12°C. Moderate gusty breeze	NM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/12/2024	Vantage Point Survey	VP4	3:00 starting at 14:05	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Light showers in evening. Rain in the air throughout. Dusk survey. Sunset - 16:04	NM
19/12/2024	Vantage Point Survey	VP1	3:00 starting at 10:40	Visibility: moderate; Wind speed and direction: moderate breeze NW; Cloud cover and height: 0-33% >500m; Rain: heavy showers; Frost: none; Snow: none	Occasional hail/sleet	CM
19/12/2024	Vantage Point Survey	VP1	3:00 starting at 14:10	Visibility: poor; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: drizzle; Frost: none; Snow: none		CM
06/01/2025	Vantage Point Survey	VP5	3:00 starting at 07:50	Visibility: good; Wind speed and direction: light breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: on ground	Grey and entirely overcast. Cold and damp with light patchy sleet on ground, very light and brief drizzle at dawn. Dawn survey. Sunrise - 08:52	NM
06/01/2025	Vantage Point Survey	VP5	3:00 starting at 11:15	Visibility: moderate; Wind speed and direction: light breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: falling	Light snow and sleet starting around noon, coming and going. Continued to be cold and damp, -2 - 2°C throughout	NM
10/01/2025	Vantage Point Survey	VP3	3:00 starting at 11:45	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: heavy; Snow: on ground		CM
14/01/2025	Vantage Point Survey	VP6	3:00 starting at 07:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Largely fair, grey and overcast. Mild, 8 - 12°C throughout. Sheltered from breeze behind forestry. Dawn survey. Sunrise - 08:47	NM
14/01/2025	Vantage Point Survey	VP6	3:00 starting at 11:15	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Cloud lifting gradually. Brightening, sunny periods	NM
16/01/2025	Vantage Point Survey	VP1	3:00 starting at 07:45	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/01/2025	Vantage Point Survey	VP1	3:00 starting at 11:15	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
22/01/2025	Vantage Point Survey	VP2	3:00 starting at 07:45	Visibility: limited; Wind speed and direction: light air E; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		CM
22/01/2025	Vantage Point Survey	VP2	3:00 starting at 11:15	Visibility: poor; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		CM
27/01/2025	Vantage Point Survey	VP3	3:00 starting at 07:35	Visibility: poor; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
31/01/2025	Vantage Point Survey	VP4	3:00 starting at 10:55	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Clear and bright	NM
31/01/2025	Vantage Point Survey	VP4	3:00 starting at 07:25	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: light; Snow: none	Largely fair. Cold with light frost. 2 - 7 °C throughout. Dawn survey. Sunrise - 08:23	NM
05/02/2025	Vantage Point Survey	VP3	3:00 starting at 11:45	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		CM
05/02/2025	Vantage Point Survey	VP3	3:00 starting at 15:20	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
14/02/2025	Vantage Point Survey	VP1	3:00 starting at 13:15	Visibility: poor; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		CM
17/02/2025	Vantage Point Survey	VP1	3:00 starting at 15:45	Visibility: poor; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
18/02/2025	Vantage Point Survey	VP2	3:00 starting at 12:15	Visibility: poor; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		CM
18/02/2025	Vantage Point Survey	VP2	3:00 starting at 15:45	Visibility: poor; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		CM
19/02/2025	Vantage Point Survey	VP4	3:00 starting at 12:15	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Grey and overcast throughout. Light drizzle in the air.	NM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/02/2025	Vantage Point Survey	VP4	3:00 starting at 15:47	Visibility: moderate; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Becoming wetter in evening, heavier showers being persistent at dusk. Turning mild, 7 - 11 °C throughout. Dusk survey. Sunset - 17:47	NM
20/02/2025	Vantage Point Survey	VP6	3:00 starting at 12:20	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Heavy showers, low cloud. Mild and humid, 8 - 12 °C throughout.	NM
20/02/2025	Vantage Point Survey	VP6	3:00 starting at 15:50	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Clearing into the evening, prolonged sunny periods. Gust breeze. Occasional light skiffs but very brief. Dusk survey. Sunset - 17:49	NM
21/02/2025	Vantage Point Survey	VP5	3:00 starting at 12:20	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Wet and humid, heavy showers. 6 - 11 °C	NM
21/02/2025	Vantage Point Survey	VP5	3:00 starting at 15:50	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Clearing considerably, prolonged sun in evening. Occasional spits of drizzle. Dusk survey. Sunset - 17:51	NM
07/03/2025	Vantage Point Survey	VP2	3:00 starting at 10:50	Visibility: moderate; Wind speed and direction: gentle breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
07/03/2025	Vantage Point Survey	VP3	3:00 starting at 06:20	Visibility: limited; Wind speed and direction: calm NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Clear at dawn but fog increasing throughout. Moved to another survey location.	CM
10/03/2025	Vantage Point Survey	VP2	3:00 starting at 06:25	Visibility: limited; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Mist or low cloud varying visibility.	CM
10/03/2025	Vantage Point Survey	VP3	3:00 starting at 10:25	Visibility: moderate; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
19/03/2025	Vantage Point Survey	VP5	3:00 starting at 05:50	Visibility: moderate; Wind speed and direction: light air E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/03/2025	Vantage Point Survey	VP4	3:00 starting at 09:20	Visibility: moderate; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		CM
20/03/2025	Vantage Point Survey	VP5	3:00 starting at 09:25	Visibility: moderate; Wind speed and direction: moderate breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
20/03/2025	Vantage Point Survey	VP4	3:00 starting at 05:45	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		CM
24/03/2025	Vantage Point Survey	VP6	3:00 starting at 05:45	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		CM
25/03/2025	Vantage Point Survey	VP6	3:00 starting at 12:45	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
27/03/2025	Vantage Point Survey	VP1	3:00 starting at 05:15	Visibility: poor; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		JD
27/03/2025	Vantage Point Survey	VP1	3:00 starting at 08:45	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		JD
01/04/2025	Vantage Point Survey	VP1	2:00 starting at 18:08	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
01/04/2025	Vantage Point Survey	VP1	1:00 starting at 20:08	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
01/04/2025	Vantage Point Survey	VP1	1:00 starting at 11:29	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
01/04/2025	Vantage Point Survey	VP1	1:00 starting at 12:29	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
01/04/2025	Vantage Point Survey	VP1	1:00 starting at 10:29	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Excellent conditions. A male hen harrier was seen in flight over conifers. Heading west over/through the tree-line, then turning back east. Male seen perched at last years nest site earlier in the morning. So this was presumably the same male. Sparrowhawk also observed in flight.	LD
03/04/2025	Vantage Point Survey	VP3	2:00 starting at 18:10	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Cool easterly winds, but excellent visibility and both the male and female hen harrier were observed once again around last years nest site. The male was seen in a long hunting flight before dusk. Snipe also chipping and drumming close by.	LD
03/04/2025	Vantage Point Survey	VP3	1:00 starting at 20:10	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
07/04/2025	Vantage Point Survey	VP5	3:00 starting at 14:45	Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Strong heat haze and Sahara dust.	SD
07/04/2025	Vantage Point Survey	VP5	3:00 starting at 18:15	Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		SD
08/04/2025	Vantage Point Survey	VP2	3:00 starting at 14:45	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Strong heat haze and Sahara dust.	SD
08/04/2025	Vantage Point Survey	VP2	3:00 starting at 18:15	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		SD
09/04/2025	Vantage Point Survey	VP6	3:00 starting at 14:45	Visibility: moderate; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Strong heat haze and Sahara dust.	SD
09/04/2025	Vantage Point Survey	VP6	3:00 starting at 18:15	Visibility: moderate; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		SD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
09/04/2025	Vantage Point Survey	VP3	1:00 starting at 07:31	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
09/04/2025	Vantage Point Survey	VP3	1:00 starting at 06:31	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Clear skies again, but there was disturbance from forestry workers close to the hen harrier nest site planting trees. Management informed about the incident.	LD
10/04/2025	Vantage Point Survey	VP3	1:00 starting at 11:04	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	I returned the following day and thankfully the male was seen close to the block of conifers once again. Then flew up high and was circling over the nest area for over five minutes. So that display flight should confirm that the birds are intending to nest in the same place as last year once again	LD
15/04/2025	Vantage Point Survey	VP4	3:00 starting at 15:05	Visibility: good; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
15/04/2025	Vantage Point Survey	VP4	3:00 starting at 18:35	Visibility: good; Wind speed and direction: fresh breeze N; Cloud cover and height: 33-66% <150m; Rain: none; Frost: none; Snow: none		NS
08/05/2025	Vantage Point Survey	VP2	3:00 starting at 04:55	Visibility: moderate; Wind speed and direction: light air N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
09/05/2025	Vantage Point Survey	VP1	3:00 starting at 04:45	Visibility: moderate; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
14/05/2025	Vantage Point Survey	VP2	3:00 starting at 17:30	Visibility: moderate; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
14/05/2025	Vantage Point Survey	VP1	3:00 starting at 14:00	Visibility: moderate; Wind speed and direction: moderate breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
21/05/2025	Vantage Point Survey	VP4	3:00 starting at 08:10	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
21/05/2025	Vantage Point Survey	VP4	3:00 starting at 04:40	Visibility: moderate; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
28/05/2025	Vantage Point Survey	VP5	3:00 starting at 04:05	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: light; Snow: none		NS
28/05/2025	Vantage Point Survey	VP5	3:00 starting at 07:35	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: light; Snow: none		NS
28/05/2025	Vantage Point Survey	VP3	2:00 starting at 14:33	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	A warm afternoon and fairly quiet. Plenty of Hirundines feeding on the wing, and the male hen harrier was seen hunting once again near the nest site. The bird flew east, but there has been no sign of the female here for some time now.	LD
28/05/2025	Vantage Point Survey	VP3	1:00 starting at 16:33	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
29/05/2025	Vantage Point Survey	VP6	3:00 starting at 04:05	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		NS
29/05/2025	Vantage Point Survey	VP6	3:00 starting at 07:35	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		NS

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
02/06/2025	Vantage Point Survey	VP3	2:00 starting at 06:48	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Early light rain, clearing to fine conditions. Snipe heard chipping here once again from wet, grassland. Female mallard also in flight from the bog. Notably, no sign of the male hen harrier here today which has been present around last years nest site for the past few weeks.	LD
02/06/2025	Vantage Point Survey	VP3	1:00 starting at 08:48	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
04/06/2025	Vantage Point Survey	VP2	1:00 starting at 06:26	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Early showers or fine rain, clearing. Three grey wagtails were seen in flight. A juvenile bird seen again later with the adult, so successful breeding here. Plenty of meadow pipits and redpoll present too. Another grey wagtail observed on the way out, alongside three sika deer hinds to and from the vantage point.	LD
04/06/2025	Vantage Point Survey	VP2	2:00 starting at 07:26	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
06/06/2025	Vantage Point Survey	VP1	3:00 starting at 12:30	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
06/06/2025	Vantage Point Survey	VP1	3:00 starting at 16:00	Visibility: moderate; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
12/06/2025	Vantage Point Survey	VP6	3:00 starting at 15:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none		NS
12/06/2025	Vantage Point Survey	VP6	3:00 starting at 11:30	Visibility: moderate; Wind speed and direction: fresh breeze E; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		NS
16/06/2025	Vantage Point Survey	VP5	3:00 starting at 14:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
16/06/2025	Vantage Point Survey	VP5	3:00 starting at 17:30	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
17/06/2025	Vantage Point Survey	VP2	2:00 starting at 12:13	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	A fine, bright afternoon. Quiet here once again though, with just the meadow pipits and the grey wagtails foraging around the drainage channels. Successful breeding as the juvenile is still present.	LD
17/06/2025	Vantage Point Survey	VP2	1:00 starting at 14:13	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
18/06/2025	Vantage Point Survey	VP4	3:00 starting at 10:20	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
18/06/2025	Vantage Point Survey	VP4	3:00 starting at 13:50	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
18/06/2025	Vantage Point Survey	VP3	2:00 starting at 06:03	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Overcast and very calm. snipe heard chipping here once again on territory, then drumming in display flight. Regular presence here for the past few weeks. buzzard also observed travelling in flight in the same area as last week. Still no sign of the hen harriers, so it looks as though they have moved away from the potential nest site where food passes were observed last year.	LD
18/06/2025	Vantage Point Survey	VP3	1:00 starting at 08:03	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
01/07/2025	Vantage Point Survey	VP3	2:00 starting at 09:40	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Light winds and warm sunshine. A quiet survey, and just a buzzard seen hunting high over the edge of forestry and open moorland to the west of VP4. Plenty of swallows on the wing, but no sign of the hen harriers here once again, around last years nest site.	LD
01/07/2025	Vantage Point Survey	VP3	1:00 starting at 11:40	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
02/07/2025	Vantage Point Survey	VP4	2:00 starting at 09:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Heavy showers at times, but short-lived and sunshine in-between. Breeding buzzards present, with both an adult and juvenile up hunting to the east and then flying into nearby forestry. They have been nesting in these trees for some time now.	LD
02/07/2025	Vantage Point Survey	VP4	1:00 starting at 11:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
03/07/2025	Vantage Point Survey	VP5	2:00 starting at 09:53	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
03/07/2025	Vantage Point Survey	VP2	1:00 starting at 15:04	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Light rain and a strong breeze. A quiet survey, with just two grey wagtails calling in flight to the north-east. Adults and a juvenile have been present in the area over the past few weeks.	LD
03/07/2025	Vantage Point Survey	VP2	2:00 starting at 16:04	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
03/07/2025	Vantage Point Survey	VP5	1:00 starting at 08:53	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Light rain at first, clearing. Quite breezy and quiet, with just grey wagtails present, foraging around the drainage channels and edge of forestry. Successful breeding here, with a juvenile present.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
04/07/2025	Vantage Point Survey	VP1	2:00 starting at 09:53	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
04/07/2025	Vantage Point Survey	VP1	1:00 starting at 08:53	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Occasional rain and a gusting breeze. Few birds in flight, although a buzzard was seen hunting high away to the north-east, over the edge of moorland and forestry. Otherwise quiet.	LD
08/07/2025	Vantage Point Survey	VP5	2:00 starting at 14:22	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
08/07/2025	Vantage Point Survey	VP5	1:00 starting at 13:22	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Low lying cloud at first, lifting. Quiet here once again, with just a grey wagtail in flight and feeding around the drainage channels. Otherwise quiet.	LD
09/07/2025	Vantage Point Survey	VP6	1:00 starting at 07:28	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
09/07/2025	Vantage Point Survey	VP6	1:00 starting at 07:28	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
09/07/2025	Vantage Point Survey	VP6	1:00 starting at 06:28	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Breezy, with low lying cloud again at first. Plenty of meadow pipits in flight over the adjacent moorland. But it was quiet, and no target species were observed here today.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
10/07/2025	Vantage Point Survey	VP4	2:01 starting at 06:02	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	A calm morning, with two snipe heard chipping on the way to the vantage point. Followed by the adult and juvenile buzzard hunting further away to the north-east once again. Successful breeding at this location.	LD
10/07/2025	Vantage Point Survey	VP4	1:01 starting at 08:02	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
10/07/2025	Vantage Point Survey	VP3	2:00 starting at 10:12	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
10/07/2025	Vantage Point Survey	VP3	1:00 starting at 09:12	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Fairly calm, with a snipe chipping and then up drumming in display flight close to the vantage point. A buzzard was then seen around a kilometre away to the east, hunting high over the moorland. Regular views in that area.	LD
14/07/2025	Vantage Point Survey	VP6	2:00 starting at 10:03	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
14/07/2025	Vantage Point Survey	VP6	1:00 starting at 09:03	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	A calm morning, with some brisk, short-lived showers. Few birds seen in flight over the viewshed. There were around a dozen meadow pipits in flight over the adjacent moorland, but no target species were observed here today.	LD
15/07/2025	Vantage Point Survey	VP2	1:00 starting at 12:14	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Fine rain or showers at times, with bright spells in between. Quiet around the clearing, but a sparrowhawk was seen in flight carrying prey. The bird flew south and into conifers, so there may well be a nest present in those trees with young birds present.	LD
15/07/2025	Vantage Point Survey	VP2	2:00 starting at 13:14	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
16/07/2025	Vantage Point Survey	VP1	2:00 starting at 12:11	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Very warm and quiet here overlooking the forestry. Few birds in flight, and only meadow pipits seen flitting around here today.	LD
16/07/2025	Vantage Point Survey	VP1	1:00 starting at 14:11	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/07/2025	Vantage Point Survey	VP3	2:00 starting at 08:48	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Still and sunny. A quiet survey, except for good numbers of Hirundines feeding on the wing. The snipe was also still present and chipping from wet grassland close to the vantage point. A buzzard was also seen hunting high again, away to the east. Regular sightings and a territory between here and vantage point4.	LD
16/07/2025	Vantage Point Survey	VP3	1:00 starting at 10:48	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
11/08/2025	Vantage Point Survey	VP1	3:00 starting at 14:15	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
11/08/2025	Vantage Point Survey	VP1	3:00 starting at 17:45	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
12/08/2025	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		NS
12/08/2025	Vantage Point Survey	VP3	3:00 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		NS
13/08/2025	Vantage Point Survey	VP2	3:00 starting at 10:30	Visibility: good; Wind speed and direction: gentle breeze ESE; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		NS
13/08/2025	Vantage Point Survey	VP2	3:00 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze ESE; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		NS
14/08/2025	Vantage Point Survey	VP5	3:00 starting at 09:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Fair and clear. Very humid and still, 17 - 23°C throughout	NM
14/08/2025	Vantage Point Survey	VP5	3:00 starting at 12:30	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Cloudy over gradually, misty and hazy cloud layer	NM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
15/08/2025	Vantage Point Survey	VP4	3:00 starting at 14:00	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Clear and fair with scattered high cloud. Warm, 18 - 24°C	NM
15/08/2025	Vantage Point Survey	VP4	3:00 starting at 17:30	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Remaining fair throughout	NM
25/08/2025	Vantage Point Survey	VP6	3:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Becoming wholly overcast. Rain dying off in mid-afternoon. 14 - 18°C throughout	NM
25/08/2025	Vantage Point Survey	VP6	3:00 starting at 10:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Blustery breeze with fresh gusts. Gradually becoming cloudier. Period of rain at noon.	NM
04/09/2025	Vantage Point Survey	VP5	2:00 starting at 10:28	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
04/09/2025	Vantage Point Survey	VP5	1:00 starting at 09:28	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	The odd light shower and very quiet here today. No target species were observed, except for a few meadow pipits	LD
05/09/2025	Vantage Point Survey	VP2	1:00 starting at 09:31	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	A little light rain at first, and quiet here. A kestrel was seen further off to the north briefly, and a few meadow pipits in the clearing.	LD
05/09/2025	Vantage Point Survey	VP2	2:00 starting at 10:31	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
08/09/2025	Vantage Point Survey	VP6	1:00 starting at 12:09	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/09/2025	Vantage Point Survey	VP6	1:00 starting at 11:09	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
08/09/2025	Vantage Point Survey	VP6	1:00 starting at 10:09	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Winds building, with some heavy showers at the end. Quiet here today. Just a few meadow pipits over the adjacent moorland, and few birds in flight over the viewshed/conifers.	LD
09/09/2025	Vantage Point Survey	VP1	1:00 starting at 16:46	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
09/09/2025	Vantage Point Survey	VP1	1:00 starting at 15:46	Visibility: good; Wind speed and direction: strong breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
09/09/2025	Vantage Point Survey	VP1	1:00 starting at 14:46	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Becoming breezy at times, and quiet here today. buzzard seen hunting away to the north-east over the edge of farmland moor. Otherwise quiet.	LD
10/09/2025	Vantage Point Survey	VP4	1:00 starting at 06:55	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
10/09/2025	Vantage Point Survey	VP4	1:00 starting at 07:55	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
10/09/2025	Vantage Point Survey	VP4	1:00 starting at 05:55	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light rain or drizzle at times, and few birds seen in flight. Only a few meadow pipits over the moor and a snipe heard calling in flight before dawn.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/09/2025	Vantage Point Survey	VP4	2:00 starting at 08:12	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
16/09/2025	Vantage Point Survey	VP4	1:00 starting at 07:12	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	A bright morning, with a couple of short-lived showers. A flock of over twenty meadow pipits were on the move over the open section of moorland. Followed by a redshank which was heard calling and then seen travelling along the Mourne Beg towards the river.	LD
17/09/2025	Vantage Point Survey	VP5	2:00 starting at 07:10	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
17/09/2025	Vantage Point Survey	VP5	1:00 starting at 06:10	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Light rain at first, clearing. Very quiet here once again and only a few meadow pipits seen around the clearing and turbine base.	LD
18/09/2025	Vantage Point Survey	VP6	1:00 starting at 07:10	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% not recorded; Rain: drizzle; Frost: none; Snow: none		LD
18/09/2025	Vantage Point Survey	VP6	1:00 starting at 06:10	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% not recorded; Rain: none; Frost: none; Snow: none	Overcast and quiet. Few bird seen in flight over the forestry, with just a few meadow pipits in the adjacent clearing.	LD
18/09/2025	Vantage Point Survey	VP6	1:00 starting at 08:10	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% not recorded; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/09/2025	Vantage Point Survey	VP3	2:00 starting at 06:11	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% not recorded; Rain: none; Frost: none; Snow: none	Less activity here than weeks gone by. A buzzard was seen to the east of the vantage point. Regular observations in this area, with a pair breeding in forestry close to vantage point 4 earlier in the season. A golden plover was also heard calling from the grassland behind the vantage point.	LD
19/09/2025	Vantage Point Survey	VP3	1:00 starting at 08:11	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% not recorded; Rain: none; Frost: none; Snow: none		LD
22/09/2025	Vantage Point Survey	VP3	2:00 starting at 10:03	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Calm and settled. A female kestrel was observed hunting over the farmland moor to the south of the vantage point. A family of recently fledged jays was also present nearby.	LD
22/09/2025	Vantage Point Survey	VP3	1:00 starting at 12:03	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
23/09/2025	Vantage Point Survey	VP1	2:00 starting at 06:21	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Calm, clear and quiet. Perfect conditions, but very little seen here today.	LD
23/09/2025	Vantage Point Survey	VP1	1:00 starting at 08:21	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
25/09/2025	Vantage Point Survey	VP2	2:00 starting at 06:22	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Good numbers of meadow pipits again, with approximately twenty foraging in a flock, mixed in with other chaffinches. A great spotted woodpecker was also heard calling from conifers, away to the north-west.	LD
25/09/2025	Vantage Point Survey	VP2	1:00 starting at 08:22	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD

Table 7 - 1 - 2 Winter walkover survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
09/10/2023	Winter Walkover Survey	Transects	1:00 starting at 08:19	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	No target species	LD
09/10/2023	Winter Walkover Survey	Transects	2:17 starting at 09:19	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
17/10/2023	Winter Walkover Survey	Transects	1:00 starting at 10:03	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
17/10/2023	Winter Walkover Survey	Transects	1:00 starting at 11:03	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
17/10/2023	Winter Walkover Survey	Transects	1:00 starting at 12:03	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
02/11/2023	Winter Walkover Survey	Transects	2:00 starting at 07:53	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
02/11/2023	Winter Walkover Survey	Transects	1:00 starting at 09:53	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% <150m; Rain: light showers; Frost: none; Snow: none		LD
10/11/2023	Winter Walkover Survey	Transects	1:00 starting at 07:31	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
10/11/2023	Winter Walkover Survey	Transects	1:00 starting at 08:31	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
10/11/2023	Winter Walkover Survey	Transects	1:46 starting at 09:31	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
05/01/2024	Winter Walkover Survey	Transects (East)	1:00 starting at 09:19	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: none	Light rain at first, and quiet in the conifers tracks. Just a buzzard seen whilst scanning.	LD
05/01/2024	Winter Walkover Survey	Transects (East)	2:12 starting at 10:19	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
17/01/2024	Winter Walkover Survey	Transects (West)	2:00 starting at 10:54	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: heavy; Snow: falling	Snow overnight, and quiet through the conifer tracks. No target species observed today.	LD
17/01/2024	Winter Walkover Survey	Transects (West)	1:09 starting at 12:54	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: heavy; Snow: falling		LD
04/03/2024	Winter Walkover Survey	Transects (East)	2:00 starting at 08:56	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Three grey wagtails seen on site. A pair of mallards were flushed, and a buzzard hunting away to the east.	LD
04/03/2024	Winter Walkover Survey	Transects (East)	1:18 starting at 10:56	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/03/2024	Winter Walkover Survey	Transects (West)	1:00 starting at 12:58	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	A fresh westerly breeze, with a pair of grey wagtails seen in here again. A few meadow pipits. Snipe flushed from the bog, and a kestrel travelling through a clearing.	LD
13/03/2024	Winter Walkover Survey	Transects (West)	1:00 starting at 13:58	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
13/03/2024	Winter Walkover Survey	Transects (West)	1:25 starting at 14:58	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
23/10/2024	Winter Walkover Survey	T1	3:00 starting at 13:45	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
24/10/2024	Winter Walkover Survey	T1	3:00 starting at 13:30	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
05/11/2024	Winter Walkover Survey	T1	3:00 starting at 11:15	Visibility: good; Wind speed and direction: gentle breeze SSE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		NS
08/11/2024	Winter Walkover Survey	T1	3:00 starting at 11:30	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
08/01/2025	Winter Walkover Survey	T1	3:00 starting at 11:50	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: heavy; Snow: on ground	Sub zero temp throughout.	CM
09/01/2025	Winter Walkover Survey	T1	3:00 starting at 11:25	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: on ground	Sub zero temp throughout.	CM
04/03/2025	Winter Walkover Survey	T1	2:50 starting at 13:40	Visibility: moderate; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
05/03/2025	Winter Walkover Survey	T1	3:10 starting at 13:25	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM

Table 7 - 1 - 3 Breeding walkover survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
03/04/2024	Breeding Walkover Survey	Transects (West)	2:00 starting at 10:47	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Fine rain at times, with two grey wagtails seen and a buzzard further away to the east.	LD
03/04/2024	Breeding Walkover Survey	Transects (West)	1:17 starting at 12:47	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
04/04/2024	Breeding Walkover Survey	Transects (West)	2:00 starting at 10:47	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Fine rain at times again, with another grey wagtail seen	LD
04/04/2024	Breeding Walkover Survey	Transects (West)	1:15 starting at 12:47	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
09/04/2024	Breeding Walkover Survey	Transects (East/West)	1:00 starting at 11:56	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Breezy, with sporadic showers and hail. Two grey wagtails seen here once again.	LD
09/04/2024	Breeding Walkover Survey	Transects (East/West)	2:00 starting at 12:56	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
18/04/2024	Breeding Walkover Survey	Transects (East/West)	1:00 starting at 11:52	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Further light rain and strengthening winds. Quiet through the conifer tracks, with just the pair of grey wagtails seen at the excavated pool again, and a kestrel hunting further west over open moor.	LD
18/04/2024	Breeding Walkover Survey	Transects (East/West)	1:00 starting at 12:52	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
18/04/2024	Breeding Walkover Survey	Transects (East/West)	1:00 starting at 13:52	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
01/05/2024	Breeding Walkover Survey	Transects	3:00 starting at 06:54	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Plenty of activity too, with multiple grey wagtail and mallard observations. A buzzard up hunting further east, and the male hen harrier flying up over conifers.	LD
01/05/2024	Breeding Walkover Survey	Transects	1:00 starting at 14:56	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
01/05/2024	Breeding Walkover Survey	Transects	1:00 starting at 15:56	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
01/05/2024	Breeding Walkover Survey	Transects	1:00 starting at 16:56	Visibility: good; Wind speed and direction: strong breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
20/05/2024	Breeding Walkover Survey	Transects	2:00 starting at 06:58	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 33-66% <150m; Rain: none; Frost: none; Snow: none	Low lying cloud, lifting to a bright, sunny day. The hen harrier pair were seen once again near the nest site, with multiple sightings in total. grey wagtail and buzzard also seen today.	LD
20/05/2024	Breeding Walkover Survey	Transects	2:00 starting at 08:58	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
20/05/2024	Breeding Walkover Survey	Transects	2:05 starting at 10:58	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
10/06/2024	Breeding Walkover Survey	T1	2:00 starting at 07:23	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Regular light showers at first, with a cold northerly breeze. The male hen harrier was observed circling beside the nest site, then hunting away to the east on five occasions. The first juvenile buzzard up with an adult. Two grey wagtails and also a pair of alarm calling Common Sandpipers near an excavated pool.	LD
10/06/2024	Breeding Walkover Survey	T1	2:00 starting at 09:23	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
10/06/2024	Breeding Walkover Survey	T1	2:00 starting at 11:23	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
25/06/2024	Breeding Walkover Survey	T2	2:00 starting at 07:23	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Dull, overcast and drizzle at first. Male and female hen harrier seen once again provisioning near the nest. buzzard, grey heron, grey wagtail and a kestrel also observed to the east.	LD
25/06/2024	Breeding Walkover Survey	T2	2:00 starting at 09:23	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
25/06/2024	Breeding Walkover Survey	T2	2:00 starting at 11:23	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/07/2024	Breeding Walkover Survey	T1	2:00 starting at 07:03	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	A calm, sunny morning. Probable male hen harrier seen, alongside two buzzard observations and grey wagtails once again, including a juvenile.	LD
08/07/2024	Breeding Walkover Survey	T1	2:00 starting at 09:03	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
08/07/2024	Breeding Walkover Survey	T1	2:00 starting at 11:03	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
22/07/2024	Breeding Walkover Survey	T1 & T2	2:00 starting at 06:36	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	No hen harrier activity once again around the nest. buzzard observed to the east. sparrowhawk to the north. Grey wagtails present and a grey heron again. Plus a kestrel sighting, which was hunting through a flock of around 25 meadow pipits.	LD
22/07/2024	Breeding Walkover Survey	T1 & T2	2:00 starting at 08:36	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
22/07/2024	Breeding Walkover Survey	T1 & T2	2:00 starting at 10:36	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
01/04/2025	Breeding Walkover Survey	T1	2:00 starting at 07:14	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	A fine, sunny spring morning, with a male hen harrier observed hunting around last year's nest site and also perched on top of the trees directly over the nest area. Buzzard, drake mallard and grey wagtail also observed. Female hen harrier also seen to the west of the nest. Female kestrel also hunting in flight.	LD
01/04/2025	Breeding Walkover Survey	T1	1:00 starting at 09:14	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
02/04/2025	Breeding Walkover Survey	T1	1:00 starting at 09:28	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
02/04/2025	Breeding Walkover Survey	T1	2:00 starting at 10:28	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
15/04/2025	Breeding Walkover Survey	T2	1:10 starting at 07:02	Visibility: not recorded; Wind speed and direction: not recorded not recorded; Cloud cover and height: not recorded not recorded; Rain: not recorded; Frost: not recorded; Snow: not recorded	start and end time of first and last observation	LD
15/04/2025	Breeding Walkover Survey	T2	1:23 starting at 15:05	Visibility: not recorded; Wind speed and direction: not recorded not recorded; Cloud cover and height: not recorded not recorded; Rain: not recorded; Frost: not recorded; Snow: not recorded	start and end time of first and last observation	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/05/2025	Breeding Walkover Survey	T1	1:00 starting at 06:48	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Clear skies and warm once again. Male hen harrier seen emerging from the nest area once again. Lost behind scrub. Three grey wagtails, including a male in song and then a pair together. Chipping snipe, followed by a second drumming in display further north. Male sparrowhawk also observed hunting through scrub.	LD
13/05/2025	Breeding Walkover Survey	T1	2:00 starting at 07:48	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
15/05/2025	Breeding Walkover Survey	T1	2:00 starting at 06:41	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
15/05/2025	Breeding Walkover Survey	T1	1:00 starting at 08:41	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
19/05/2025	Breeding Walkover Survey	T2	2:00 starting at 06:08	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Clear and sunny once again. A pair of grey wagtails were observed together, with another on territory further east. No sign of the male hen harrier around the nest site today. Which has been very active since the onset of spring. I'll return again next week to monitor their progress.	LD
19/05/2025	Breeding Walkover Survey	T2	4:00 starting at 08:08	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
10/06/2025	Breeding Walkover Survey	T1	2:00 starting at 06:04	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: light showers; Frost: none; Snow: none	A calm and clear morning. Plenty of activity, including a pair of mallards in flight from the bog. Three separate snipe heard chipping and/or drumming from wet, grassland moor. Three grey wagtails, with a male in song on territory and a pair further north. A common sandpiper agitated and alarm calling, where the birds bred last year. buzzard also travelling in flight over forestry. Although notably, there was no sign of the hen harriers around the nest site.	LD
10/06/2025	Breeding Walkover Survey	T1	1:00 starting at 08:04	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
10/06/2025	Breeding Walkover Survey	T1	3:00 starting at 09:04	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
23/06/2025	Breeding Walkover Survey	T2	2:00 starting at 05:54	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% 150-500m; Rain: light showers; Frost: none; Snow: none	Winds building from the west. Three grey wagtails observed on territory, and a buzzard up hunting over the edge of moorland and forestry. Regular sightings here adjacent to VP3. No sign of the hen harrier once again on the western side of the site, and I had a look around the nest towards the end of the survey.	LD
23/06/2025	Breeding Walkover Survey	T2	2:00 starting at 07:54	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
23/06/2025	Breeding Walkover Survey	T2	2:00 starting at 09:54	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
08/07/2025	Breeding Walkover Survey	T1	3:00 starting at 06:03	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Low lying cloud at first, which lifted away with the wind. A buzzard was observed thing away to the east. A grey wagtail near the Mourne Beg river and a snipe was heard chipping from wet farmland fields. Still no discernible sign of the hen harriers which were so active in this location a few weeks ago. It has been a month since the male was seen hunting near last year's nest site.	LD
08/07/2025	Breeding Walkover Survey	T1	2:00 starting at 09:03	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/07/2025	Breeding Walkover Survey	T1	1:00 starting at 11:03	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
24/07/2025	Breeding Walkover Survey	T2	3:00 starting at 06:03	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Calm and quiet. Although a kestrel was flushed from trees, below VP1 and adjacent to open moorland. A probable juvenile kestrel was also seen this week not far away from CVMP1. A probable juvenile kestrel was also seen this week not far away from CVMP1. An adult little grebe was also seen diving for food on the small lough behind VP5.	LD
24/07/2025	Breeding Walkover Survey	T2	3:00 starting at 09:03	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD

Table 7 - 1 - 4 Waterbird distribution and abundance survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
26/10/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: moderate; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Heavy fog at the start of the survey but cleared after the first 2 hours	EP
27/10/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		EP
01/11/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: moderate; Wind speed and direction: strong breeze E; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	October effort	EP
02/11/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	October effort	EP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/11/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		EP
17/11/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		EP
01/12/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none	November effort	EP
05/12/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none	November effort	EP
06/12/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		EP
07/12/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: moderate; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		EP
19/12/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: drizzle; Frost: none; Snow: none		EP
20/12/2023	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: limited; Wind speed and direction: near gale W; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none		EP
09/01/2024	Waterbird Distribution and Abundance Survey	5km Radius and Lough Eske	7:30 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: light; Snow: none		EP
10/01/2024	Waterbird Distribution and Abundance Survey	5km Radius and Lough Eske	7:30 starting at 09:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: light; Snow: none		EP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
30/01/2024	Waterbird Distribution and Abundance Survey	5km Radius and Lough Eske	7:30 starting at 09:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		EP
31/01/2024	Waterbird Distribution and Abundance Survey	5km Radius and Lough Eske	7:30 starting at 09:00	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: light; Snow: none		EP
13/02/2024	Waterbird Distribution and Abundance Survey	5km Radius and Lough Eske	7:30 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		EP
14/02/2024	Waterbird Distribution and Abundance Survey	5km Radius and Lough Eske	7:30 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		EP
28/02/2024	Waterbird Distribution and Abundance Survey	5km Radius and Lough Eske	7:30 starting at 09:00	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		EP
01/03/2024	Waterbird Distribution and Abundance Survey	5km Radius and Lough Eske	7:30 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	February effort	EP
12/03/2024	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		EP
13/03/2024	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		EP
20/03/2024	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 09:00	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		EP

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
28/03/2024	Waterbird Distribution and Abundance Survey	5km Radius	7:30 starting at 11:30	Visibility: moderate; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: on ground		EP
04/04/2024	Waterbird Distribution and Abundance Survey	Point 1-12 Barnesmore WF	3:45 starting at 11:15	Visibility: poor; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		CM
04/04/2024	Waterbird Distribution and Abundance Survey	Lough Eske Points 13-17	2:15 starting at 15:30	Visibility: poor; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
05/04/2024	Waterbird Distribution and Abundance Survey	5km Radius	3:00 starting at 11:30	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		CM
05/04/2024	Waterbird Distribution and Abundance Survey	5km Radius	1:00 starting at 15:00	Visibility: poor; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
05/04/2024	Waterbird Distribution and Abundance Survey	5km Radius	2:00 starting at 16:00	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
16/04/2024	Waterbird Distribution and Abundance Survey	5km Radius	3:00 starting at 13:30	Visibility: moderate; Wind speed and direction: moderate breeze N; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		CM
16/04/2024	Waterbird Distribution and Abundance Survey	5km Radius	3:00 starting at 17:00	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: drizzle; Frost: none; Snow: none		CM
17/04/2024	Waterbird Distribution and Abundance Survey	5km Radius	1:00 starting at 11:30	Visibility: limited; Wind speed and direction: light air W; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		CM
17/04/2024	Waterbird Distribution and Abundance Survey	5km Radius	2:00 starting at 12:30	Visibility: poor; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		CM
17/04/2024	Waterbird Distribution and Abundance Survey	5km Radius	3:00 starting at 15:00	Visibility: moderate; Wind speed and direction: light breeze NNW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/05/2024	Waterbird Distribution and Abundance Survey	Lough Mourne and Barnesmore.	2:00 starting at 16:15	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Lough Mourne water level low.	CM
08/05/2024	Waterbird Distribution and Abundance Survey	5km Radius	1:00 starting at 18:15	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
09/05/2024	Waterbird Distribution and Abundance Survey	5km Radius	3:00 starting at 17:00	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
10/05/2024	Waterbird Distribution and Abundance Survey	5km Radius and Barnesmore wind farm	3:00 starting at 11:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
10/05/2024	Waterbird Distribution and Abundance Survey	Barnesmore W	1:00 starting at 14:30	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
10/05/2024	Waterbird Distribution and Abundance Survey	Lough Eske	2:00 starting at 15:30	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
28/05/2024	Waterbird Distribution and Abundance Survey	5km Radius	3:00 starting at 12:00	Visibility: poor; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
28/05/2024	Waterbird Distribution and Abundance Survey	5km Radius and Lough Eske	3:00 starting at 15:30	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
29/05/2024	Waterbird Distribution and Abundance Survey	5km Radius	3:00 starting at 09:30	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
29/05/2024	Waterbird Distribution and Abundance Survey	Barnesmore Wind Farm	3:00 starting at 13:00	Visibility: poor; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
03/09/2024	Waterbird Distribution and Abundance Survey	Barnesmore and Lough Mourne	3:00 starting at 09:00	Visibility: moderate; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
03/09/2024	Waterbird Distribution and Abundance Survey	Mournebeg River and surrounding lakes	3:00 starting at 12:30	Visibility: moderate; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
05/09/2024	Waterbird Distribution and Abundance Survey	Barnesmore Wind Farm lakes	3:00 starting at 12:15	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	One day gap between waterbird distribution and abundance survey due to training day.	CM
05/09/2024	Waterbird Distribution and Abundance Survey	Lough Eske and River	3:00 starting at 15:45	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
18/09/2024	Waterbird Distribution and Abundance Survey	Barnesmore/Meenbog and Lough Mourne	3:00 starting at 08:45	Visibility: moderate; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
18/09/2024	Waterbird Distribution and Abundance Survey	Mournebeg River and surrounding lakes	3:00 starting at 12:15	Visibility: moderate; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
19/09/2024	Waterbird Distribution and Abundance Survey	Barnesmore Wind Farm lakes	3:00 starting at 10:00	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
19/09/2024	Waterbird Distribution and Abundance Survey	Lowrymore, Eske River and Lough Eske	3:00 starting at 13:30	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
03/10/2024	Waterbird Distribution and Abundance Survey	Points 31,32,33,20,21,22,26	3:00 starting at 12:00	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
03/10/2024	Waterbird Distribution and Abundance Survey	Points 23,24,25,27,28,29	3:00 starting at 15:30	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
04/10/2024	Waterbird Distribution and Abundance Survey	Barnesmore Wind Farm	3:00 starting at 11:15	Visibility: limited; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		CM
04/10/2024	Waterbird Distribution and Abundance Survey	Points 13-18	3:00 starting at 14:45	Visibility: poor; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		CM
16/10/2024	Waterbird Distribution and Abundance Survey	Points 33,20,21,22,24	3:00 starting at 09:50	Visibility: poor; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		CM
16/10/2024	Waterbird Distribution and Abundance Survey	Points 25,26,27,28,29	3:00 starting at 13:20	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
17/10/2024	Waterbird Distribution and Abundance Survey	Barnesmore Wind Farm and Points 1 - 12	3:00 starting at 10:30	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
17/10/2024	Waterbird Distribution and Abundance Survey	Points 31,32 and Lough Eske	3:00 starting at 14:00	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
29/10/2024	Waterbird Distribution and Abundance Survey	Points 13-17	2:00 starting at 09:30	Visibility: limited; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	November effort	CM
29/10/2024	Waterbird Distribution and Abundance Survey	Points 20-29	4:00 starting at 11:30	Visibility: poor; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	November effort	CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
30/10/2024	Waterbird Distribution and Abundance Survey	5km radius	6:00 starting at 09:00	Visibility: poor; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	November effort	CM
19/11/2024	Waterbird Distribution and Abundance Survey	Points 1-12	3:00 starting at 10:30	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: on ground		CM
19/11/2024	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 13:30	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: on ground		CM
20/11/2024	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 11:15	Visibility: poor; Wind speed and direction: light air NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: falling	Variable visibility in snow showers.	CM
20/11/2024	Waterbird Distribution and Abundance Survey	Lough Eske and River	2:50 starting at 14:15	Visibility: moderate; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: on ground		CM
04/12/2024	Waterbird Distribution and Abundance Survey	River/Lough Eske	2:15 starting at 10:45	Visibility: poor; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
04/12/2024	Waterbird Distribution and Abundance Survey	River/Lough Eske	2:00 starting at 13:00	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none	Break taken to address issue with vehicle.	CM
04/12/2024	Waterbird Distribution and Abundance Survey	River/Lough Eske	1:00 starting at 15:45	Visibility: poor; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
05/12/2024	Waterbird Distribution and Abundance Survey	Barnesmore Wind Farm	1:15 starting at 10:30	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		CM
05/12/2024	Waterbird Distribution and Abundance Survey	5km Radius	2:15 starting at 11:45	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
05/12/2024	Waterbird Distribution and Abundance Survey	5km Radius	2:30 starting at 14:00	Visibility: poor; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/12/2024	Waterbird Distribution and Abundance Survey	Lough eske	2:00 starting at 10:40	Visibility: poor; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
17/12/2024	Waterbird Distribution and Abundance Survey	5km radius	4:00 starting at 12:40	Visibility: poor; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
18/12/2024	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 09:45	Visibility: moderate; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
18/12/2024	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 13:00	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
14/01/2025	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 10:30	Visibility: poor; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		CM
14/01/2025	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 13:30	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
15/01/2025	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 10:00	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Water levels high after cold snap/thaw	CM
15/01/2025	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 13:00	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
28/01/2025	Waterbird Distribution and Abundance Survey	5km radius	1:30 starting at 09:30	Visibility: poor; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
28/01/2025	Waterbird Distribution and Abundance Survey	5km radius	4:30 starting at 11:30	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		CM
29/01/2025	Waterbird Distribution and Abundance Survey	5km radius	6:00 starting at 09:30	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/02/2025	Waterbird Distribution and Abundance Survey	5km radius	5:45 starting at 11:45	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
12/02/2025	Waterbird Distribution and Abundance Survey	5km radius	6:15 starting at 11:20	Visibility: moderate; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
25/02/2025	Waterbird Distribution and Abundance Survey	5km radius	6:00 starting at 10:30	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
26/02/2025	Waterbird Distribution and Abundance Survey	5km radius	3:50 starting at 10:00	Visibility: poor; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		CM
26/02/2025	Waterbird Distribution and Abundance Survey	5km radius	2:10 starting at 14:10	Visibility: moderate; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
11/03/2025	Waterbird Distribution and Abundance Survey	5km radius	6:00 starting at 11:00	Visibility: moderate; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		CM
12/03/2025	Waterbird Distribution and Abundance Survey	5km radius	6:10 starting at 11:50	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
24/03/2025	Waterbird Distribution and Abundance Survey	5km radius	6:00 starting at 09:00	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
25/03/2025	Waterbird Distribution and Abundance Survey	5km radius	6:00 starting at 06:30	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
15/04/2025	Waterbird Distribution and Abundance Survey	5km Radius	6:15 starting at 09:50	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
16/04/2025	Waterbird Distribution and Abundance Survey	5km Radius	3:00 starting at 13:00	Visibility: poor; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/04/2025	Waterbird Distribution and Abundance Survey	5km Radius	3:00 starting at 16:00	Visibility: moderate; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
29/04/2025	Waterbird Distribution and Abundance Survey	5km Radius	6:30 starting at 13:30	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
30/04/2025	Waterbird Distribution and Abundance Survey	5km Radius	6:00 starting at 12:30	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
12/05/2025	Waterbird Distribution and Abundance Survey	5km radius	5:45 starting at 14:45	Visibility: moderate; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
13/05/2025	Waterbird Distribution and Abundance Survey	5km radius	5:45 starting at 14:30	Visibility: moderate; Wind speed and direction: moderate breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
22/05/2025	Waterbird Distribution and Abundance Survey	5km radius	6:30 starting at 08:30	Visibility: moderate; Wind speed and direction: gentle breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
23/05/2025	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 09:15	Visibility: moderate; Wind speed and direction: light air S; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		CM
23/05/2025	Waterbird Distribution and Abundance Survey	5km radius	3:00 starting at 12:15	Visibility: poor; Wind speed and direction: light air S; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		CM

Table 7 - 1 - 5 Hen harrier roost survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
10/10/2023	Hen Harrier Roost Survey	HHVP2	1:00 starting at 07:04	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
10/10/2023	Hen Harrier Roost Survey	HHVP2	1:38 starting at 08:04	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
12/10/2023	Hen Harrier Roost Survey	HHVP4	1:00 starting at 07:07	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
12/10/2023	Hen Harrier Roost Survey	HHVP4	1:57 starting at 08:07	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
16/10/2023	Hen Harrier Roost Survey	HHVP3	1:00 starting at 07:26	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
16/10/2023	Hen Harrier Roost Survey	HHVP3	2:10 starting at 08:26	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	3 pied flycatcher travelling	LD
17/10/2023	Hen Harrier Roost Survey	HHVP1	1:00 starting at 07:23	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
17/10/2023	Hen Harrier Roost Survey	HHVP1	1:34 starting at 08:23	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
06/11/2023	Hen Harrier Roost Survey	HHVP3	1:00 starting at 14:33	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	No target species	LD
06/11/2023	Hen Harrier Roost Survey	HHVP3	1:46 starting at 15:33	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
08/11/2023	Hen Harrier Roost Survey	HHVP4	1:00 starting at 14:31	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
08/11/2023	Hen Harrier Roost Survey	HHVP4	1:46 starting at 15:31	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
22/11/2023	Hen Harrier Roost Survey	HHVP2	1:00 starting at 14:18	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		LD
22/11/2023	Hen Harrier Roost Survey	HHVP2	1:41 starting at 15:18	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		LD
28/11/2023	Hen Harrier Roost Survey	HHVP1	1:00 starting at 14:22	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% <150m; Rain: light showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
28/11/2023	Hen Harrier Roost Survey	HHVP1	1:37 starting at 15:22	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% <150m; Rain: light showers; Frost: none; Snow: none		LD
05/12/2023	Hen Harrier Roost Survey	HHVP4	1:00 starting at 08:03	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: on ground		LD
05/12/2023	Hen Harrier Roost Survey	HHVP4	1:18 starting at 09:03	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: on ground		LD
06/12/2023	Hen Harrier Roost Survey	HHVP3	1:00 starting at 14:17	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: none		LD
06/12/2023	Hen Harrier Roost Survey	HHVP3	1:37 starting at 15:17	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: drizzle; Frost: light; Snow: none		LD
07/12/2023	Hen Harrier Roost Survey	HHVP2	1:00 starting at 08:02	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: none		LD
07/12/2023	Hen Harrier Roost Survey	HHVP2	1:18 starting at 09:02	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: none		LD
11/12/2023	Hen Harrier Roost Survey	HHVP1	1:00 starting at 08:06	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: none		LD
11/12/2023	Hen Harrier Roost Survey	HHVP1	1:11 starting at 09:06	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: none		LD
02/01/2024	Hen Harrier Roost Survey	HHVP3	1:00 starting at 14:20	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: none	A couple of showers, but two woodcock were observed here again, and another on the way out.	LD
02/01/2024	Hen Harrier Roost Survey	HHVP3	1:36 starting at 15:20	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: none		LD
16/01/2024	Hen Harrier Roost Survey	HHVP1	1:00 starting at 14:22	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: on ground	Very cold, with wintery showers. A quiet survey. No target species seen here this afternoon.	LD
16/01/2024	Hen Harrier Roost Survey	HHVP1	1:44 starting at 15:22	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/01/2024	Hen Harrier Roost Survey	HHVP2	1:00 starting at 14:17	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: heavy; Snow: falling	Snow overnight and falling at the end of the survey. Extremely quiet, and no target species observed today.	LD
17/01/2024	Hen Harrier Roost Survey	HHVP2	1:50 starting at 15:17	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: heavy; Snow: falling		LD
22/01/2024	Hen Harrier Roost Survey	HHVP4	1:00 starting at 14:18	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Winds building from the west. Sparrowhawk and a grey wagtail observed over the moorland. snipe heard calling at dusk.	LD
22/01/2024	Hen Harrier Roost Survey	HHVP4	2:02 starting at 15:18	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
01/02/2024	Hen Harrier Roost Survey	HHVP1	1:00 starting at 15:16	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
01/02/2024	Hen Harrier Roost Survey	HHVP1	1:24 starting at 16:16	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
08/02/2024	Hen Harrier Roost Survey	HHVP3	1:00 starting at 15:26	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: falling	Snow present and falling earlier in the day	LD
08/02/2024	Hen Harrier Roost Survey	HHVP3	1:35 starting at 16:26	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: on ground		LD
15/02/2024	Hen Harrier Roost Survey	HHVP4	1:00 starting at 15:16	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Fine rain at first, then clear skies and excellent conditions.	LD
15/02/2024	Hen Harrier Roost Survey	HHVP4	1:56 starting at 16:16	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
22/02/2024	Hen Harrier Roost Survey	HHVP2	1:00 starting at 07:10	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: falling	Snow showers	LD
22/02/2024	Hen Harrier Roost Survey	HHVP2	1:24 starting at 08:10	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: falling		LD
01/03/2024	Hen Harrier Roost Survey	HHVP2	1:00 starting at 15:46	Visibility: good; Wind speed and direction: strong breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Snow on site, cold and quiet. Just a buzzard seen off to the east of the vantage point, over moorland and forestry.	LD
01/03/2024	Hen Harrier Roost Survey	HHVP2	1:00 starting at 16:46	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: falling		LD
01/03/2024	Hen Harrier Roost Survey	HHVP2	0:56 starting at 17:46	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: falling		LD
08/03/2024	Hen Harrier Roost Survey	HHVP1	1:00 starting at 06:46	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Breezy and quiet. Another buzzard seen to the east over forestry.	LD
08/03/2024	Hen Harrier Roost Survey	HHVP1	2:00 starting at 07:46	Visibility: good; Wind speed and direction: strong breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
09/03/2024	Hen Harrier Roost Survey	HHVP4	1:00 starting at 16:14	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Breezy, very cold and quiet. Just a snipe heard calling in flight after dusk and another woodcock on the way out.	LD
09/03/2024	Hen Harrier Roost Survey	HHVP4	1:41 starting at 17:14	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/03/2024	Hen Harrier Roost Survey	HHVP3	1:00 starting at 16:36	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none	Breeze subsiding, and woodcock seen here once again. Two in flight from the vantage point, plus two more flushed nearby on the way out after dark. A small herd of sika deer and a hare were also observed here this evening.	LD
13/03/2024	Hen Harrier Roost Survey	HHVP3	1:00 starting at 17:36	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		LD
13/03/2024	Hen Harrier Roost Survey	HHVP3	1:38 starting at 17:36	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		LD
23/10/2024	Hen Harrier Roost Survey	HHVP3	2:25 starting at 16:45	Visibility: poor; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
24/10/2024	Hen Harrier Roost Survey	HHVP2	1:35 starting at 16:45	Visibility: poor; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
24/10/2024	Hen Harrier Roost Survey	HHVP2	0:40 starting at 18:20	Visibility: limited; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: on ground		CM
25/10/2024	Hen Harrier Roost Survey	HHVP4	2:20 starting at 16:50	Visibility: poor; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM
29/10/2024	Hen Harrier Roost Survey	HHVP1	2:10 starting at 15:35	Visibility: limited; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Visibility variable with passing low cloud/mist.	CM
04/11/2024	Hen Harrier Roost Survey	HHVP1	3:00 starting at 15:00	Visibility: moderate; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
05/11/2024	Hen Harrier Roost Survey	HHVP3	3:00 starting at 14:45	Visibility: good; Wind speed and direction: gentle breeze SSE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
12/11/2024	Hen Harrier Roost Survey	HHVP2	3:00 starting at 15:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
13/11/2024	Hen Harrier Roost Survey	HHVP4	3:00 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
04/12/2024	Hen Harrier Roost Survey	HHVP4	2:00 starting at 07:48	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Overcast, calm and settled. snipe heard calling in flight before dawn, alongside a buzzard calling from conifers.	LD
04/12/2024	Hen Harrier Roost Survey	HHVP4	1:26 starting at 08:48	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
10/12/2024	Hen Harrier Roost Survey	HHVP2	1:00 starting at 08:07	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Very cold and quiet. Just a jack snipe flushed before dawn, and a lone meadow pipit beside the vantage point.	LD
10/12/2024	Hen Harrier Roost Survey	HHVP2	1:16 starting at 09:07	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
11/12/2024	Hen Harrier Roost Survey	HHVP1	1:00 starting at 08:06	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Leaden skies, calm and quiet. Snipe and woodcock flushed from a track on the way to the vantage point. A buzzard was also observed flying over conifers on the way out.	LD
11/12/2024	Hen Harrier Roost Survey	HHVP1	1:16 starting at 09:06	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
17/12/2024	Hen Harrier Roost Survey	HHVP3	1:00 starting at 14:17	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Occasional fine drizzle, but two woodcock were observed here at this vantage point once again.	LD
17/12/2024	Hen Harrier Roost Survey	HHVP3	1:31 starting at 15:17	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
07/01/2025	Hen Harrier Roost Survey	HHVP4	2:30 starting at 15:00	Visibility: moderate; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: on ground		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/01/2025	Hen Harrier Roost Survey	HHVP2	2:25 starting at 15:00	Visibility: moderate; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: heavy; Snow: on ground	Sub zero temp throughout.	CM
09/01/2025	Hen Harrier Roost Survey	HHVP1	2:30 starting at 15:00	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: on ground	Sub zero temp throughout.	CM
16/01/2025	Hen Harrier Roost Survey	HHVP3	2:30 starting at 15:05	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
10/02/2025	Hen Harrier Roost Survey	HHVP2	2:20 starting at 16:05	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
24/02/2025	Hen Harrier Roost Survey	HHVP4	2:25 starting at 16:40	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
25/02/2025	Hen Harrier Roost Survey	HHVP3	2:25 starting at 16:30	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
26/02/2025	Hen Harrier Roost Survey	HHVP3	2:30 starting at 16:30	Visibility: moderate; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none	Repeat HHVP3 due to recent information.	CM
04/03/2025	Hen Harrier Roost Survey	HHVP4	2:25 starting at 16:45	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		CM
05/03/2025	Hen Harrier Roost Survey	HHVP2	2:20 starting at 16:45	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
11/03/2025	Hen Harrier Roost Survey	HHVP1	2:00 starting at 17:00	Visibility: moderate; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
11/03/2025	Hen Harrier Roost Survey	HHVP1	0:30 starting at 19:00	Visibility: poor; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
18/03/2025	Hen Harrier Roost Survey	HHVP3	2:20 starting at 17:15	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM

Table 7 - 1 - 6 Breeding raptor survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/04/2024	Breeding Raptor Survey	BR3	2:00 starting at 06:52	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Calm conditions and overcast. grey wagtail, mallard and sparrowhawk this morning. Peregrine falcon also seen near last years breednig location.	LD
08/04/2024	Breeding Raptor Survey	BR3	3:00 starting at 08:52	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
08/04/2024	Breeding Raptor Survey	BR3	1:00 starting at 11:52	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
17/04/2024	Breeding Raptor Survey	BR6	3:00 starting at 06:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	white-tailed eagle nest, on nest on arrival	RV
17/04/2024	Breeding Raptor Survey	BR6	3:00 starting at 10:00	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		RV
17/04/2024	Breeding Raptor Survey	BR2	1:00 starting at 12:58	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Rain all morning and then clearing, so conducted at this time slot. Occasional fine drizzle and no specific sightings. But a bird was heard calling and fresh pellets and feathers were found near last years territory. Peregrine seen flying over Barnesmore later in the evening. .	LD
17/04/2024	Breeding Raptor Survey	BR2	1:00 starting at 13:58	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/04/2024	Breeding Raptor Survey	BR2	4:26 starting at 14:58	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
18/04/2024	Breeding Raptor Survey	BR4	3:00 starting at 06:30	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	meadow pairs/territories and grey wagtail pairs, no raptors recorded	RV
18/04/2024	Breeding Raptor Survey	BR4	3:00 starting at 10:00	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		RV
22/04/2024	Breeding Raptor Survey	BR1	3:00 starting at 09:20	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
22/04/2024	Breeding Raptor Survey	BR1	3:00 starting at 12:50	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
28/04/2024	Breeding Raptor Survey	BR5	3:00 starting at 08:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV
28/04/2024	Breeding Raptor Survey	BR7	3:00 starting at 13:10	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV
01/05/2024	Breeding Raptor Survey	BR3	1:00 starting at 09:58	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	A fine morning, with the male hen harrier observed in display three times to the east of their vantage point.	LD
01/05/2024	Breeding Raptor Survey	BR3	2:06 starting at 10:58	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
02/05/2024	Breeding Raptor Survey	BR3	1:00 starting at 10:21	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Hazy sunshine, with the male hen harrier seen here again on two occasions. Soaring over the area it was displaying yesterday.	LD
02/05/2024	Breeding Raptor Survey	BR3	1:00 starting at 11:21	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
02/05/2024	Breeding Raptor Survey	BR3	1:00 starting at 12:21	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
09/05/2024	Breeding Raptor Survey	BR2	2:00 starting at 09:28	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Hazy cloud and calm. buzzard and peregrine falcon both observed here near last years next site.	LD
09/05/2024	Breeding Raptor Survey	BR2	1:00 starting at 11:28	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
11/05/2024	Breeding Raptor Survey	BR7	3:00 starting at 13:50	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
11/05/2024	Breeding Raptor Survey	BR6	3:00 starting at 17:45	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	white-tailed eagle on nest from arrival	RV
15/05/2024	Breeding Raptor Survey	BR4	3:00 starting at 13:30	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
15/05/2024	Breeding Raptor Survey	BR4	3:00 starting at 17:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
16/05/2024	Breeding Raptor Survey	BR1	3:00 starting at 14:45	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
16/05/2024	Breeding Raptor Survey	BR1	3:00 starting at 18:15	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
22/05/2024	Breeding Raptor Survey	BR8	3:00 starting at 17:20	Visibility: good; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		RV
27/05/2024	Breeding Raptor Survey	BR5	3:00 starting at 07:40	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
27/05/2024	Breeding Raptor Survey	BR2	1:00 starting at 10:14	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Good conditions, with the peregrine was seen here again near the nest site, and a buzzard seen on territory. Plus a white-tailed sea eagle seen briefly in Barnesmore.	LD
27/05/2024	Breeding Raptor Survey	BR2	2:00 starting at 11:14	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
10/06/2024	Breeding Raptor Survey	BR4	3:00 starting at 13:30	Visibility: good; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	light drizzly spells, regular but brief	RV
10/06/2024	Breeding Raptor Survey	BR4	3:00 starting at 17:00	Visibility: good; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		RV
18/06/2024	Breeding Raptor Survey	BR3	2:00 starting at 07:23	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Overcast and cool. Multiple sightings of the male and female hen harrier seen from the nest including food passes observed. There were also two buzzard and two grey wagtail observations, plus two sperate chiping snipe from wet bog.	LD
18/06/2024	Breeding Raptor Survey	BR3	2:00 starting at 09:23	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
18/06/2024	Breeding Raptor Survey	BR3	2:00 starting at 11:23	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
18/06/2024	Breeding Raptor Survey	BR6	1:30 starting at 14:20	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	90 minute survey	RV
20/06/2024	Breeding Raptor Survey	BR6	1:30 starting at 06:20	Visibility: moderate; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	90 mins, chick had been ringed on 19 June	RV
21/06/2024	Breeding Raptor Survey	BR7	3:00 starting at 17:10	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Rain on arrival quickly cleared	RV
22/06/2024	Breeding Raptor Survey	BR3	3:00 starting at 05:05	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
22/06/2024	Breeding Raptor Survey	BR3	3:00 starting at 08:35	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
24/06/2024	Breeding Raptor Survey	BR2	3:00 starting at 13:45	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Old merlin pellets found on one mound south of vantage point. No fresh signs found on previous mounds and posts. Juvenile long-eared owl probably heard from corner of plantation at 16:40 and 18:24 (when clouds covered sun and area was quite dark). No sign or sound as I left site and walked around small plantation.	RV
24/06/2024	Breeding Raptor Survey	BR2	3:00 starting at 17:15	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
28/06/2024	Breeding Raptor Survey	BR5	3:00 starting at 17:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Searched for peregrine, red-throated diver and ring ouzel but zero found	RV
29/06/2024	Breeding Raptor Survey	BR8	3:00 starting at 19:10	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		RV
01/07/2024	Breeding Raptor Survey	BR1a	1:00 starting at 07:57	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Fine drizzle at first, clearing. Male and female hen harriers observed once again around the nest site.	LD
01/07/2024	Breeding Raptor Survey	BR1a	2:00 starting at 08:57	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
03/07/2024	Breeding Raptor Survey	BR3	2:00 starting at 10:02	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Very breezy, with regular showers or fine rain. peregrine falcons observed in the mountain glen around the nest site once again. No juveniles seen at this stage.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
03/07/2024	Breeding Raptor Survey	BR3	1:00 starting at 12:02	Visibility: good; Wind speed and direction: near gale W; Cloud cover and height: 0-33% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
11/07/2024	Breeding Raptor Survey	BR1a	2:00 starting at 09:52	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Overcast and cool. Very quiet. No hen harriers seen once near the nest Just two separate gull species travelling in flight and a buzzard further east.	LD
11/07/2024	Breeding Raptor Survey	BR1a	1:00 starting at 11:52	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
12/07/2024	Breeding Raptor Survey	BR7	2:00 starting at 13:42	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Overcast and quiet. Just a buzzard seen in Barnesmore, over conifers, where a pair has previously been observed.	LD
12/07/2024	Breeding Raptor Survey	BR7	1:00 starting at 15:42	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
16/07/2024	Breeding Raptor Survey	BR2	1:00 starting at 06:43	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Low lying cloud at first, clearing. Calm and quiet. No merlin observed, and only meadow pipits seen this morning.	LD
16/07/2024	Breeding Raptor Survey	BR2	2:00 starting at 07:43	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
16/07/2024	Breeding Raptor Survey	BR3	1:00 starting at 10:03	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Overcast and fairly calm. peregrine falcon observed once again in Barnesmore. Plus a pair of kestrels and/or adult with a juvenile hunting on the southern side.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/07/2024	Breeding Raptor Survey	BR3	1:00 starting at 11:03	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
16/07/2024	Breeding Raptor Survey	BR3	1:00 starting at 12:03	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
17/07/2024	Breeding Raptor Survey	BR4	1:00 starting at 10:22	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Calm and overcast. Very quiet here, but a buzzard was seen to the south over scrub and forestry. A great spotted woodpecker was also heard calling to the south. Three times in total.	LD
17/07/2024	Breeding Raptor Survey	BR4	2:00 starting at 11:22	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
17/07/2024	Breeding Raptor Survey	BR2	1:00 starting at 14:09	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Clouding in, with light rain right at the end of the survey. Very quiet once again with no merlin observed.	LD
17/07/2024	Breeding Raptor Survey	BR2	1:00 starting at 15:09	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
17/07/2024	Breeding Raptor Survey	BR2	1:00 starting at 16:09	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
23/07/2024	Breeding Raptor Survey	BR4	2:00 starting at 07:16	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Overcast, very calm and quiet. A grey wagtail was calling in flight alongside the stream. Otherwise quiet, bar a few meadow pipits.	LD
23/07/2024	Breeding Raptor Survey	BR4	1:00 starting at 09:16	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
23/07/2024	Breeding Raptor Survey	BR6	2:00 starting at 10:47	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	A fine day, with the white-tailed sea eagle seen around the nest. No sign of the chick or juvenile, but another bird was heard calling several times behind the tree-line. A buzzard was also present over fields and forestry.	LD
23/07/2024	Breeding Raptor Survey	BR6	1:00 starting at 12:47	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
30/07/2024	Breeding Raptor Survey	BR5	1:30 starting at 14:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
30/07/2024	Breeding Raptor Survey	BR5	1:30 starting at 15:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
30/07/2024	Breeding Raptor Survey	BR8	3:00 starting at 20:15	Visibility: moderate; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
07/08/2024	Breeding Raptor Survey	BR7	3:00 starting at 11:00	Visibility: poor; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		CM
07/08/2024	Breeding Raptor Survey	BR3	3:00 starting at 14:30	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
14/08/2024	Breeding Raptor Survey	BR1	2:00 starting at 17:30	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
14/08/2024	Breeding Raptor Survey	BR1	1:00 starting at 19:30	Visibility: poor; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		CM
20/08/2024	Breeding Raptor Survey	BR1a	3:00 starting at 11:00	Visibility: moderate; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
22/08/2024	Breeding Raptor Survey	BR4	1:30 starting at 08:00	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
22/08/2024	Breeding Raptor Survey	BR4	1:30 starting at 09:30	Visibility: limited; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
22/08/2024	Breeding Raptor Survey	BR6	3:00 starting at 12:30	Visibility: poor; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
23/08/2024	Breeding Raptor Survey	BR2	3:00 starting at 09:30	Visibility: poor; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
23/08/2024	Breeding Raptor Survey	BR5	3:00 starting at 13:20	Visibility: moderate; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
28/08/2024	Breeding Raptor Survey	BR8	3:00 starting at 09:00	Visibility: limited; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		CM
28/08/2024	Breeding Raptor Survey	BR7	3:00 starting at 12:30	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
30/08/2024	Breeding Raptor Survey	BR8a	3:00 starting at 11:15	Visibility: moderate; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
30/08/2024	Breeding Raptor Survey	BR8a	3:00 starting at 14:45	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
08/04/2025	Breeding Raptor Survey	BR1a	1:00 starting at 06:21	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Clear skies and excellent visibility. The male hen harrier was observed three times once again, flying out from the trees where last years nest was located. No sign of the female here, unlike last week.	LD
08/04/2025	Breeding Raptor Survey	BR1a	2:00 starting at 07:21	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
11/04/2025	Breeding Raptor Survey	BR2	3:00 starting at 06:50	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/04/2025	Breeding Raptor Survey	BR2	3:00 starting at 10:20	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV
12/04/2025	Breeding Raptor Survey	BR4	3:00 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		RV
12/04/2025	Breeding Raptor Survey	BR4	1:00 starting at 17:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		RV
12/04/2025	Breeding Raptor Survey	BR4	1:00 starting at 18:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		RV
12/04/2025	Breeding Raptor Survey	BR4	1:00 starting at 19:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		RV
14/04/2025	Breeding Raptor Survey	BR6	1:00 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		RV
14/04/2025	Breeding Raptor Survey	BR6	1:00 starting at 18:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		RV
14/04/2025	Breeding Raptor Survey	BR6	1:00 starting at 19:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV
15/04/2025	Breeding Raptor Survey	BR3	1:00 starting at 06:30	Visibility: good; Wind speed and direction: light breeze WNW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		RV
15/04/2025	Breeding Raptor Survey	BR3	1:00 starting at 07:30	Visibility: good; Wind speed and direction: light breeze WNW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
15/04/2025	Breeding Raptor Survey	BR3	1:00 starting at 08:30	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
15/04/2025	Breeding Raptor Survey	BR3	2:00 starting at 10:00	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
15/04/2025	Breeding Raptor Survey	BR3	1:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/04/2025	Breeding Raptor Survey	BR1a	0:58 starting at 10:19	Visibility: not recorded; Wind speed and direction: not recorded not recorded; Cloud cover and height: not recorded not recorded; Rain: not recorded; Frost: not recorded; Snow: not recorded	start and end time given as time of first and last observation	LD
21/04/2025	Breeding Raptor Survey	BR7	3:00 starting at 13:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
21/04/2025	Breeding Raptor Survey	BR5	3:00 starting at 17:40	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
24/04/2025	Breeding Raptor Survey	BR8	3:00 starting at 17:40	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
06/05/2025	Breeding Raptor Survey	BR1a	2:00 starting at 09:09	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Clear skies and excellent visibility. Male sky dancing around the nest site. Joined in flight by the female. Breeding display and copurtship observed near the nest site.	LD
06/05/2025	Breeding Raptor Survey	BR1a	1:00 starting at 11:09	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
08/05/2025	Breeding Raptor Survey	BR1a	2:00 starting at 09:11	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Clear skies and warm once again. Male hen harrier seen once again on a long hunting flight, emerging close from the nest area. No sign of the female there this morning, unlike earlier in the week. Grey wagtail also observed in flight.	LD
08/05/2025	Breeding Raptor Survey	BR1a	1:00 starting at 11:11	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
13/05/2025	Breeding Raptor Survey	BR7	3:00 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
14/05/2025	Breeding Raptor Survey	BR6	3:00 starting at 18:10	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
15/05/2025	Breeding Raptor Survey	BR8	3:00 starting at 18:20	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
16/05/2025	Breeding Raptor Survey	BR4	3:00 starting at 05:30	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
16/05/2025	Breeding Raptor Survey	BR4	3:00 starting at 09:00	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
20/05/2025	Breeding Raptor Survey	BR3	3:00 starting at 05:15	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
20/05/2025	Breeding Raptor Survey	BR3	3:00 starting at 08:45	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
23/05/2025	Breeding Raptor Survey	BR2	3:00 starting at 05:20	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV
23/05/2025	Breeding Raptor Survey	BR2	3:00 starting at 08:50	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
28/05/2025	Breeding Raptor Survey	BR5	1:00 starting at 18:30	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
28/05/2025	Breeding Raptor Survey	BR5	1:00 starting at 19:30	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		RV
28/05/2025	Breeding Raptor Survey	BR5	1:00 starting at 20:30	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: drizzle; Frost: none; Snow: none		RV
18/06/2025	Breeding Raptor Survey	BR6	3:00 starting at 11:15	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Chick in nest, adult female perched nearby, male heard	RV
18/06/2025	Breeding Raptor Survey	BR3	3:00 starting at 15:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	kestrel	RV
18/06/2025	Breeding Raptor Survey	BR3	3:00 starting at 18:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/06/2025	Breeding Raptor Survey	BR1a	2:00 starting at 07:08	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	A clear, warm day. buzzard observed in flight, and two grey wagtails in the same area once again. Still no hen harriers present near last years nest site, so it looks as though the birds have moved on following the initial high activity and display flights from the male.	LD
19/06/2025	Breeding Raptor Survey	BR1a	1:00 starting at 09:08	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
19/06/2025	Breeding Raptor Survey	BR7	3:00 starting at 13:10	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV
24/06/2025	Breeding Raptor Survey	BR4	3:00 starting at 15:20	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	grey heron	RV
24/06/2025	Breeding Raptor Survey	BR4	3:00 starting at 18:50	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
25/06/2025	Breeding Raptor Survey	BR1a	2:00 starting at 09:11	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Overcast and quiet, in general. buzzard present once again, observed travelling in flight. grey wagtails as well. An adult and juvenile grey wagtail were also seen, present in the same area. snipe drumming further afield. Up for a very long time in display flight to the north of the vantage point. Still no sign of the hen harriers from last years nest site.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
25/06/2025	Breeding Raptor Survey	BR1a	1:00 starting at 11:11	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
25/06/2025	Breeding Raptor Survey	BR8	3:00 starting at 18:40	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Common sandpiper pair alarm calling on walk back to car	RV
28/06/2025	Breeding Raptor Survey	BR5	3:00 starting at 18:30	Visibility: good; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	kestrel, grey wagtail flushed on walk down. Pine marten seen on walk back to car also	RV
30/06/2025	Breeding Raptor Survey	BR2	3:00 starting at 15:30	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	kestrel	RV
30/06/2025	Breeding Raptor Survey	BR2	3:00 starting at 19:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		RV
06/07/2025	Breeding Raptor Survey	BR3	6:30 starting at 05:45	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	sparrowhawk, kestrel, buzzard and peregrine falcon	RV
06/07/2025	Breeding Raptor Survey	BR7	3:00 starting at 13:45	Visibility: good; Wind speed and direction: moderate breeze NNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	meadow pipit around vantage point	RV
07/07/2025	Breeding Raptor Survey	BR6	3:00 starting at 16:00	Visibility: moderate; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Chick in nest, adults arrived with food, female fed juvenile	RV
12/07/2025	Breeding Raptor Survey	BR4	6:30 starting at 05:20	Visibility: good; Wind speed and direction: gentle breeze SSE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	kestrel, sparrowhawk, buzzard	RV
13/07/2025	Breeding Raptor Survey	BR2	6:30 starting at 14:40	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	meadow pipit	RV
18/07/2025	Breeding Raptor Survey	BR8	3:00 starting at 06:20	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	Common sandpiper at two lakes	RV
19/07/2025	Breeding Raptor Survey	BR5	3:00 starting at 07:30	Visibility: moderate; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	kestrel, meadow pipit	RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
21/07/2025	Breeding Raptor Survey	BR1a	2:00 starting at 15:05	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Light drizzle and quiet. Clear spells too, and a buzzard seen once again to the east travelling north. A sparrowhawk was also seen over forestry, in an area where a bird was seen earlier in the season from VP3 and VP4. Otherwise quiet, and no sign of the male hen harrier once again that was active near last years nest site.	LD
21/07/2025	Breeding Raptor Survey	BR1a	1:00 starting at 17:05	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
28/07/2025	Breeding Raptor Survey	BR1a	2:00 starting at 09:14	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Calm and overcast. Very quiet, with just a few corvids and Hirundines on the wing. A buzzard was also seen once again, travelling towards VP4. Regular observations in this area, with a juvenile present in conifers to the north-east of VP4. No sign of th male hen harrier, although a male was seen earlier this morning further east towards its winter roost site.	LD
28/07/2025	Breeding Raptor Survey	BR1a	1:00 starting at 11:14	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD

Table 7 - 1 - 7 Breeding woodcock survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/05/2024	Breeding Woodcock Survey	T1	2:00 starting at 20:15	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
09/05/2024	Breeding Woodcock Survey	T2	2:00 starting at 20:30	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
17/06/2024	Breeding Woodcock Survey	T2	2:00 starting at 21:11	Visibility: good; Wind speed and direction: light air NNW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	no observations	FOD
18/06/2024	Breeding Woodcock Survey	T1	2:00 starting at 21:15	Visibility: good; Wind speed and direction: light breeze NNW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		FOD
24/06/2024	Breeding Woodcock Survey	T1	2:00 starting at 21:11	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		FOD
25/06/2024	Breeding Woodcock Survey	T2	2:00 starting at 21:11	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		FOD
12/05/2025	Breeding Woodcock Survey	T1	2:15 starting at 20:30	Visibility: moderate; Wind speed and direction: light breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
13/05/2025	Breeding Woodcock Survey	T2	2:00 starting at 20:40	Visibility: moderate; Wind speed and direction: light breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
25/06/2025	Breeding Woodcock Survey	T1	2:00 starting at 21:15	Visibility: not recorded; Wind speed and direction: calm not recorded; Cloud cover and height: 66-100% not recorded; Rain: light showers; Frost: none; Snow: none		FM
26/06/2025	Breeding Woodcock Survey	T1	2:00 starting at 21:15	Visibility: not recorded; Wind speed and direction: light breeze not recorded; Cloud cover and height: 66-100% not recorded; Rain: light showers; Frost: none; Snow: none		FM
25/06/2025	Breeding Woodcock Survey	T2	2:00 starting at 21:15	Visibility: not recorded; Wind speed and direction: calm not recorded; Cloud cover and height: 66-100% not recorded; Rain: light showers; Frost: none; Snow: none		MD
26/06/2025	Breeding Woodcock Survey	T2	2:00 starting at 21:15	Visibility: not recorded; Wind speed and direction: light breeze not recorded; Cloud cover and height: 66-100% not recorded; Rain: light showers; Frost: none; Snow: none		MD

Table 7 - 1 - 8 Breeding red grouse survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
06/03/2024	Breeding Red Grouse Survey	Transects in 500m Radius	3:45 starting at 09:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Transects 1 - 2	NM
06/03/2024	Breeding Red Grouse Survey	Transects in 500m Radius	3:30 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Thinly overcast, occasional sun breaking through. Transects 3 - 4	NM
24/03/2025	Breeding Red Grouse Survey	Transects in 500m Radius	6:00 starting at 08:30	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% >500m; Rain: drizzle; Frost: light; Snow: none	Light frost early. Mostly fair with sunny spells and brief drizzle. 3 - 10°C	NM

Table 7 - 1 - 9 Connectivity vantage point survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
23/09/2023	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 06:20	Visibility: good; Wind speed and direction: gentle breeze NNW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
19/10/2023	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 13:17	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		LD
19/10/2023	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 16:17	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
19/10/2023	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 18:17	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% <150m; Rain: none; Frost: none; Snow: none		LD
17/11/2023	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 14:24	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		LD
17/11/2023	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 15:24	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
22/11/2023	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 11:14	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
22/11/2023	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 12:14	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		LD
04/12/2023	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 10:32	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: on ground		LD
04/12/2023	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 11:32	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: on ground		LD
04/12/2023	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 12:32	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: on ground		LD
12/12/2023	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 14:04	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	No target species	LD
12/12/2023	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 15:04	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		LD
15/01/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 07:46	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: light; Snow: falling	Snow and ice present on site. Quiet, with no target species observed today.	LD
15/01/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 09:46	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: heavy; Snow: falling		LD
30/01/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 10:41	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Clear skies, with winds building and changing direction. A sparrowhawk was seen flying through scrub. Cormorant observed upon leaving.	LD
30/01/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 11:41	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
30/01/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 12:41	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
26/02/2024	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 12:30	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
26/02/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 16:00	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Low sun affecting visibility in Barnesmore gap.	CM
26/02/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 18:00	Visibility: poor; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
14/03/2024	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 06:10	Visibility: poor; Wind speed and direction: light air NE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
14/03/2024	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 09:40	Visibility: poor; Wind speed and direction: light air NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		CM
03/04/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 14:40	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Occasional light showers. Peregrine falcon observed heading towards last year's nest location at Barnesmore.	LD
03/04/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 16:40	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
09/04/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 18:28	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	The occasional shower, but winds calming and bright spells in between. grey wagtail seen again, plus a pair of buzzards together in the Barnesmore Gap.	LD
09/04/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 19:28	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
09/04/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 20:28	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/05/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 10:00	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Occasional fine rain or drizzle. A quiet morning, although the peregrine falcon was observed here again in Barnesmore.	LD
13/05/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
14/05/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 04:34	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Calm and quiet. snipe in flight before dawn, and a male merlin seen close to BR1 and the edge of forestry, where the pellets were found last month.	LD
14/05/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 05:34	Visibility: good; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
23/06/2024	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
23/06/2024	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
15/07/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 13:33	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none	North-westerly winds and quiet here today. Just a buzzard seen once again in Barnesmore.	LD
15/07/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 14:33	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
30/07/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 06:32	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	Just a buzzard seen here again in the Barnesmore Gap. Otherwise quiet. A kestrel was also seen travelling from the vantage point further east not far from where a pair and/or juvenile were seen recently, also in Barnesmore.	LD
30/07/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 07:32	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
14/08/2024	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 14:00	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
20/08/2024	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 14:30	Visibility: poor; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CM
04/09/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 09:36	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	North-westerly winds, with fine drizzle and bright spells in between. Just four meadow pipits observed, alongside a grey heron travelling along the Lowerymore River.	LD
04/09/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 10:36	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
04/09/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 11:36	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
11/10/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 07:05	Visibility: moderate; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/10/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 09:05	Visibility: poor; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% <150m; Rain: drizzle; Frost: none; Snow: none		CM
25/10/2024	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 13:40	Visibility: poor; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
18/11/2024	Connectivity Vantage Point Survey	CMVP1	2:30 starting at 07:20	Visibility: moderate; Wind speed and direction: light air E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
18/11/2024	Connectivity Vantage Point Survey	CMVP1	0:30 starting at 09:50	Visibility: limited; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Mist forming	CM
18/11/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 11:20	Visibility: poor; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Break extended to allow conditions to improve.	CM
18/11/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 13:20	Visibility: poor; Wind speed and direction: light breeze E; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
03/12/2024	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 09:50	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
03/12/2024	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 14:20	Visibility: limited; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none	Visibility decreasing steadily with low cloud and rain, final 2hrs dusk postponed until better conditions.	CM
16/12/2024	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 15:10	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		CM
03/01/2025	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 07:55	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: heavy; Snow: none	Break in survey required by surveyor.	CM
03/01/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 10:45	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: heavy; Snow: none	Continued after break.	CM
07/01/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 10:40	Visibility: moderate; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: falling	Visibility poor in brief snow showers	CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/02/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 12:15	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CM
20/02/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 15:45	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
19/03/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 05:35	Visibility: moderate; Wind speed and direction: light air SE; Cloud cover and height: 33-66% <150m; Rain: none; Frost: light; Snow: none	Hazy low mist, hampered visibility. Cold with light frost. Calm. Dawn survey. Sunrise - 06:36	NM
19/03/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 09:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Clearing completely by 9am. Bright and completely clear and sunny. Large temperature range, -5 - 9°C throughout	NM
10/04/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 14:45	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Strong heat haze and Sahara dust.	SD
10/04/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 18:15	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		SD
27/05/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 04:05	Visibility: good; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		NS
27/05/2025	Connectivity Vantage Point Survey	CMVP1	0:40 starting at 07:05	Visibility: good; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		NS
27/05/2025	Connectivity Vantage Point Survey	CMVP1	2:20 starting at 09:15	Visibility: good; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		NS
03/06/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 06:24	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Blustery showers and a strong breeze from the west. Very quiet and no target species seen today, except for a couple of meadow pipits in flight.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
03/06/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 07:24	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
11/06/2025	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 09:28	Visibility: good; Wind speed and direction: not recorded W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Calm with broken cloud and sunshine. Great spotted woodpecker heard calling from conifers close to the vantage point. Brief view of a probable peregrine falcon in flight over the mountain ridge in Barnesmore, where the birds have been breeding for some time and recently observed by a colleague.	LD
11/06/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 11:28	Visibility: good; Wind speed and direction: not recorded W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
14/07/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 12:14	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	A couple of showers at first. Clearing to fine, bright conditions. A quiet survey though, with just a great black-backed gull travelling in flight down through the Barnesmore Gap. There was no sign of any buzzards. Or a pair of kestrels that were observed last year further south in that gap and mountain terrain.	LD
14/07/2025	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 13:14	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
22/07/2025	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 13:16	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Calm and overcast. Fairly quiet here as usual, then a kestrel was seen flying low through the Barnesmore Gap. The bird was heading east and was a probable juvenile bird, as the primaries had a pale panel. Successful breeding in this area if so. Worth noting that a female kestrel was also seen not far away this week on a walkover, closer to VP1. Which isn't far away to the south-east in the direction the bird was travelling.	LD
22/07/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 15:16	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
14/08/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 19:05	Visibility: moderate; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Hazy and misty in evening, cloud dropping. Remaining largely fair, but moisture in the air. Visibility poor at times. Cooler, 14 - 18°C. Dusk survey. Sunset - 21:05	NM
25/08/2025	Connectivity Vantage Point Survey	CMVP1	3:00 starting at 05:25	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Bright with prolonged sunny spells. Cloud moving through gap. Dawn survey. Sunrise - 06:25	NM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/09/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 09:30	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Fine drizzle at first, then brighter and breezy. No target species observed here today, apart from a few meadow pipits. No sign of the kestrels that were present around Barnesmore a few weeks ago.	LD
17/09/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 10:30	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
17/09/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 11:30	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
29/09/2025	Connectivity Vantage Point Survey	CMVP1	2:00 starting at 10:53	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Overcast, with occasional line drizzle. Very quiet here today in Barnesmore, with just a few meadow pipits and a grey wagtail calling in flight close to the Lowerymore river where a pair has been observed in the past.	LD
29/09/2025	Connectivity Vantage Point Survey	CMVP1	1:00 starting at 12:53	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD

Table 7 - 1 - 10 Breeding red-throated diver survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
05/06/2024	Breeding Red-throated Diver Survey	RH1	3:00 starting at 12:00	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AOD
05/06/2024	Breeding Red-throated Diver Survey	RH1	3:00 starting at 15:30	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AOD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
19/06/2024	Breeding Red-throated Diver Survey	RH2	3:00 starting at 16:30	Visibility: moderate; Wind speed and direction: moderate breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
19/06/2024	Breeding Red-throated Diver Survey	RH2	3:00 starting at 20:00	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
23/07/2024	Breeding Red-throated Diver Survey	RH1	3:00 starting at 09:30	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
23/07/2024	Breeding Red-throated Diver Survey	RH1	3:00 starting at 13:00	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
27/08/2024	Breeding Red-throated Diver Survey	RH1	3:30 starting at 08:30	Visibility: poor; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		CM
27/08/2024	Breeding Red-throated Diver Survey	RH1	2:30 starting at 12:35	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		CM
23/04/2025	Breeding Red-throated Diver Survey	RH1	3:00 starting at 06:50	Visibility: moderate; Wind speed and direction: moderate breeze E; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		CM
23/04/2025	Breeding Red-throated Diver Survey	RH1	3:00 starting at 10:20	Visibility: moderate; Wind speed and direction: moderate breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
02/05/2025	Breeding Red-throated Diver Survey	RH1	3:00 starting at 10:45	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM
02/05/2025	Breeding Red-throated Diver Survey	RH1	3:00 starting at 14:15	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
13/06/2025	Breeding Red-throated Diver Survey	RH1	3:00 starting at 11:00	Visibility: poor; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		CM
13/06/2025	Breeding Red-throated Diver Survey	RH1	3:00 starting at 14:30	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/07/2025	Breeding Red-throated Diver Survey	RH1	3:00 starting at 11:45	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CM
16/07/2025	Breeding Red-throated Diver Survey	RH1	3:00 starting at 15:15	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CM

Table 7 - 1 - 11 Supplemental surveys survey effort

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/04/2019	Supplemental Surveys	HH1	0:43 starting at 15:00	Visibility: good; Wind speed and direction: strong breeze ESE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		SF
14/04/2019	Supplemental Surveys	PE1	0:36 starting at 15:00	Visibility: good; Wind speed and direction: near gale ESE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		SF
20/04/2019	Supplemental Surveys	ML1	2:15 starting at 07:30	Visibility: poor; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	fog early on, visibility 100-200m	SF
20/04/2019	Supplemental Surveys	HH2	1:30 starting at 12:30	Visibility: poor; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		SF
28/04/2019	Supplemental Surveys	HH1	8:01 starting at 06:30	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		SF
15/05/2019	Supplemental Surveys	PE1	3:00 starting at 16:10	Visibility: good; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	No activity	SF
15/05/2019	Supplemental Surveys	ML1	0:11 starting at 19:34	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		SF
16/05/2019	Supplemental Surveys	PE1	3:15 starting at 07:25	Visibility: good; Wind speed and direction: gentle breeze ESE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		SF
16/05/2019	Supplemental Surveys	ML1	0:40 starting at 11:50	Visibility: good; Wind speed and direction: fresh breeze ESE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		SF

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
16/05/2019	Supplemental Surveys	HH1	1:40 starting at 13:20	Visibility: good; Wind speed and direction: strong breeze ESE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No raptors	SF
22/05/2019	Supplemental Surveys	HH2	6:00 starting at 05:30	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		SF
27/05/2019	Supplemental Surveys	HH1	6:30 starting at 05:30	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		SF
27/05/2019	Supplemental Surveys	ML1	0:25 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	after Meenbog drive to Barrack Hill and check merlin site. Female flies around copse calling.	SF
28/05/2019	Supplemental Surveys	HH1	3:10 starting at 06:20	Visibility: poor; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	upland bog open area (160528), from 08:20 visibility improves to 2km	SF
28/05/2019	Supplemental Surveys	PE1	2:00 starting at 10:00	Visibility: poor; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	checked PE nest site after walkover	SF
20/06/2019	Supplemental Surveys	ML1	1:20 starting at 17:40	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	2 merlin	SF
25/06/2019	Supplemental Surveys	PE1	2:00 starting at 10:00	Visibility: good; Wind speed and direction: light breeze NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No activity	SF
27/06/2019	Supplemental Surveys	PE1	3:30 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No activity	SF
01/07/2019	Supplemental Surveys	HH1	1:00 starting at 13:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	no hen harrier activity observed, June survey	TR
01/07/2019	Supplemental Surveys	HH1	1:00 starting at 14:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
01/07/2019	Supplemental Surveys	HH1	1:00 starting at 15:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
01/07/2019	Supplemental Surveys	HH1	1:00 starting at 17:00	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
01/07/2019	Supplemental Surveys	HH1	1:00 starting at 18:00	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
01/07/2019	Supplemental Surveys	HH1	1:00 starting at 19:00	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
02/07/2019	Supplemental Surveys	HH2	1:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	June survey	TR
02/07/2019	Supplemental Surveys	HH2	1:00 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
02/07/2019	Supplemental Surveys	HH2	1:00 starting at 15:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	male in hunting flight four times	TR
02/07/2019	Supplemental Surveys	HH2	1:00 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
02/07/2019	Supplemental Surveys	HH2	1:00 starting at 18:00	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
02/07/2019	Supplemental Surveys	HH2	1:00 starting at 19:00	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
08/07/2019	Supplemental Surveys	PE1	2:00 starting at 13:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No activity	SF
08/07/2019	Supplemental Surveys	ML1	2:00 starting at 15:10	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	merlin breeding confirmed - 3 flying fledged juveniles seen perched together on a heather hummock, 0.5m apart	SF
09/07/2019	Supplemental Surveys	HH2	1:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	no hen harrier activity observed	TR
09/07/2019	Supplemental Surveys	HH2	1:00 starting at 13:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
09/07/2019	Supplemental Surveys	HH2	1:00 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
09/07/2019	Supplemental Surveys	PE1	2:00 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	At 15:10 ravens fly above cliff area near historic nest site, they fly from south to north side of Barnesmore Gap, if peregrines were nesting at this time, I would expect the pair to drive off ravens in the nest vicinity, as there is no peregrine activity, I conclude that a pair have not bred here in 2019.	SF
09/07/2019	Supplemental Surveys	HH2	1:00 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
09/07/2019	Supplemental Surveys	HH2	1:00 starting at 16:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
09/07/2019	Supplemental Surveys	HH2	1:00 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
09/07/2019	Supplemental Surveys	HH2	1:00 starting at 18:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
09/07/2019	Supplemental Surveys	HH2	1:00 starting at 19:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
10/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 07:00	Visibility: limited; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% <150m; Rain: drizzle; Frost: none; Snow: none	conducted north of VP11, no hen harrier activity observed	TR
10/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 08:00	Visibility: limited; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		TR
10/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 09:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
10/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
10/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		TR
10/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		TR
10/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
11/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 08:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	south-east	TR
11/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 09:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
11/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 0-33% >500m; Rain: drizzle; Frost: none; Snow: none		TR
11/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 0-33% >500m; Rain: drizzle; Frost: none; Snow: none		TR
11/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: drizzle; Frost: none; Snow: none		TR
11/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
11/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 15:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 0-33% >500m; Rain: heavy showers; Frost: none; Snow: none		TR
11/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 17:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		TR
11/07/2019	Supplemental Surveys	Lismullyduff	1:00 starting at 18:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		TR

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
12/07/2019	Supplemental Surveys	PE1	5:00 starting at 05:45	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No peregrine activity, juveniles flying, adults present, no evidence of successful breeding by peregrines here	SF
28/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 13:00	Visibility: good; Wind speed and direction: light breeze S ; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
28/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 14:00	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
28/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 15:00	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
28/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 16:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
28/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 17:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
28/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 18:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
29/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 15:00	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		AOD
29/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 17:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		AOD
29/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 18:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		AOD
29/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 19:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		AOD
29/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 20:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AOD
29/08/2019	Supplemental Surveys	Trusk Lough	1:00 starting at 21:00	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AOD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
14/05/2020	Supplemental Surveys	PE1	3:00 starting at 13:35	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		RV
14/05/2020	Supplemental Surveys	ML1	3:00 starting at 17:15	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No targets	RV
15/05/2020	Supplemental Surveys	HH1	3:00 starting at 13:15	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		RV
15/05/2020	Supplemental Surveys	HH2	3:00 starting at 17:15	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		RV
20/05/2020	Supplemental Surveys	PE1	3:00 starting at 13:55	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		RV
20/05/2020	Supplemental Surveys	ML1	3:00 starting at 17:25	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		RV
21/05/2020	Supplemental Surveys	HH1	3:00 starting at 13:45	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		RV
21/05/2020	Supplemental Surveys	HH2	3:00 starting at 17:25	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		RV
08/06/2020	Supplemental Surveys	PE1	3:00 starting at 13:20	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
08/06/2020	Supplemental Surveys	HH1	3:00 starting at 17:10	Visibility: good; Wind speed and direction: light breeze WNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
10/06/2020	Supplemental Surveys	HH2	3:00 starting at 16:55	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	showers 17:10-17:20 and 18:05- 18:25. arrived around 16:00 to find better VP but could not find one	RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
12/06/2020	Supplemental Surveys	HH1	3:00 starting at 13:00	Visibility: good; Wind speed and direction: gentle breeze NNE; Cloud cover and height: 0-33% >500m; Rain: light showers; Frost: none; Snow: none		RV
12/06/2020	Supplemental Surveys	ML1	3:00 starting at 17:05	Visibility: good; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	no targets	RV
14/06/2020	Supplemental Surveys	HH1	6:50 starting at 06:40	Visibility: good; Wind speed and direction: light breeze ENE; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	Showers 06:40-10:10, then clearing	RV
20/06/2020	Supplemental Surveys	HH1	6:00 starting at 14:50	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Rain from 19:00 until end of survey. No targets	RV
21/06/2020	Supplemental Surveys	HH1	6:00 starting at 14:45	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Wind dropped as it swung around to SW from 17:30	RV
22/06/2020	Supplemental Surveys	HH1	6:00 starting at 05:15	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	Light drizzling showers for most of survey. Heron	RV
24/06/2020	Supplemental Surveys	PE1	3:00 starting at 17:30	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Golden Eagles recorded	RV
25/06/2020	Supplemental Surveys	HH2	3:00 starting at 18:00	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
26/06/2020	Supplemental Surveys	ML1	3:00 starting at 05:55	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	No targets recorded during survey, merlin from two sites nearby have vocal young and could be heard at up to 500m and over	RV
02/07/2020	Supplemental Surveys	HH1	5:55 starting at 05:25	Visibility: good; Wind speed and direction: gentle breeze NNW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	First workers on site passing VP at 6:50 regular trucks passing constant noise	RV
12/07/2020	Supplemental Surveys	HH2	3:00 starting at 05:55	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
12/07/2020	Supplemental Surveys	HH1	3:00 starting at 10:00	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
20/07/2020	Supplemental Surveys	ML1	3:00 starting at 05:50	Visibility: good; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	active merlin nest	RV
20/07/2020	Supplemental Surveys	HH2	3:00 starting at 16:45	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
21/07/2020	Supplemental Surveys	ML1	3:00 starting at 06:50	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
21/07/2020	Supplemental Surveys	PE1	3:00 starting at 10:30	Visibility: good; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
23/07/2020	Supplemental Surveys	PE1	3:00 starting at 05:25	Visibility: moderate; Wind speed and direction: light breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Light drizzle on arrival low cloud was half way up hillside, dull and damp but began to clear at 6:30 clear by 7, no peregrines heard or observed	RV
23/07/2020	Supplemental Surveys	HH1	3:00 starting at 15:20	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
14/04/2021	Supplemental Surveys	PE1	3:00 starting at 12:45	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
14/04/2021	Supplemental Surveys	PE1	3:00 starting at 16:15	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
20/04/2021	Supplemental Surveys	HH2	6:00 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AOD
22/04/2021	Supplemental Surveys	ML1	6:00 starting at 13:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		AOD
23/04/2021	Supplemental Surveys	HH1	6:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/05/2021	Supplemental Surveys	HH2	6:00 starting at 14:00	Visibility: moderate; Wind speed and direction: strong breeze N; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		AOD
21/05/2021	Supplemental Surveys	HH1	6:00 starting at 14:00	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AOD
26/05/2021	Supplemental Surveys	PE1	3:00 starting at 13:15	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
26/05/2021	Supplemental Surveys	PE1	3:00 starting at 16:45	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
31/05/2021	Supplemental Surveys	ML1	1:00 starting at 14:30	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	hot windy summery day, 21C	CD
31/05/2021	Supplemental Surveys	ML1	1:00 starting at 15:30	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CD
31/05/2021	Supplemental Surveys	ML1	1:00 starting at 16:30	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CD
31/05/2021	Supplemental Surveys	ML1	1:00 starting at 17:30	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CD
31/05/2021	Supplemental Surveys	ML1	1:00 starting at 18:30	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CD
31/05/2021	Supplemental Surveys	ML1	1:00 starting at 19:30	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CD
09/06/2021	Supplemental Surveys	PE1	3:00 starting at 08:50	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		AOD
09/06/2021	Supplemental Surveys	ML1	3:00 starting at 12:00	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		AOD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/06/2021	Supplemental Surveys	ML1	3:00 starting at 14:00	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AOD
11/06/2021	Supplemental Surveys	PE1	3:00 starting at 17:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		AOD
17/06/2021	Supplemental Surveys	HH1	3:00 starting at 14:00	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
17/06/2021	Supplemental Surveys	HH1	3:00 starting at 17:30	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
01/07/2021	Supplemental Surveys	HH2	6:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	June effort	AOD
07/07/2021	Supplemental Surveys	ML1	6:30 starting at 05:00	Visibility: good; Wind speed and direction: light air N-NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	male and female merlin on site, male kestrel also	RV
11/07/2021	Supplemental Surveys	PE1	6:30 starting at 04:55	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Adult and Juvenile on site	RV
13/07/2021	Supplemental Surveys	HH2	2:00 starting at 14:35	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Transect walked through the Fifth Corgary to look for the hen harriers that had been reported earlier in the season, very quiet all round, and no hen harriers were observed, the transect route is marked on the map.	LD
13/07/2021	Supplemental Surveys	HH2	4:05 starting at 16:35	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
14/07/2021	Supplemental Surveys	HH1	6:30 starting at 05:35	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	No sightings	RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
14/07/2021	Supplemental Surveys	HH2	2:00 starting at 15:03	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	A settled evening with a vantage point conducted from an area below the Fifth Corgary where hen harriers have been reported, no sign of any harriers all afternoon or evening, local landowner said he saw a pair on his land throughout the spring and summer last year, but had not seen them for a long time now. Lesser black-backed gull was seen in flight, a buzzard hunting over open moor, vantage point conducted from Grid Ref 1144 8558, with a short transect walked along that track	LD
14/07/2021	Supplemental Surveys	HH2	4:02 starting at 17:03	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
19/07/2021	Supplemental Surveys	HH2	6:30 starting at 05:15	Visibility: good; Wind speed and direction: light breeze E-SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Buzzard nest with 2-3 chicks. Fifth Corgary	RV
27/07/2021	Supplemental Surveys	HH2	2:00 starting at 14:45	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	A fairly calm and quiet afternoon and evening over the two sections of moorland and forestry. A buzzard was heard calling, and then a juvenile seen in conifers. Alongside two lesser black-backed gulls in flight. See map for location.	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
27/07/2021	Supplemental Surveys	HH2	4:15 starting at 16:45	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
05/05/2022	Supplemental Surveys	HH2	6:30 starting at 05:55	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
06/05/2022	Supplemental Surveys	HH1	6:30 starting at 14:35	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		RV
07/05/2022	Supplemental Surveys	PE1	6:30 starting at 05:40	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV
11/05/2022	Supplemental Surveys	ML1	6:30 starting at 14:50	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
15/05/2022	Supplemental Surveys	HH2	6:30 starting at 07:10	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
16/05/2022	Supplemental Surveys	PE1	6:30 starting at 15:05	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		RV
01/06/2022	Supplemental Surveys	ML1	6:00 starting at 14:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AOD
02/06/2022	Supplemental Surveys	HH1	6:00 starting at 12:30	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		AOD
20/06/2022	Supplemental Surveys	HH1	6:30 starting at 14:20	Visibility: good; Wind speed and direction: moderate breeze WEST; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
21/06/2022	Supplemental Surveys	PE1	6:30 starting at 05:25	Visibility: good; Wind speed and direction: light breeze N-NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		RV
23/06/2022	Supplemental Surveys	HH2	6:30 starting at 13:30	Visibility: good; Wind speed and direction: light breeze S-SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
29/06/2022	Supplemental Surveys	ML1	6:30 starting at 11:55	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Feathers and pellets of male found	RV

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/07/2022	Supplemental Surveys	PE1	2:06 starting at 10:44	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No observations	LD
20/07/2022	Supplemental Surveys	HH1	3:00 starting at 12:15	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none	No observations	AOD
21/07/2022	Supplemental Surveys	HH2	4:00 starting at 06:32	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No observations, A calm morning, cool for July with light north-westerly winds	LD
21/07/2022	Supplemental Surveys	HH2	2:35 starting at 10:32	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No observations	LD
21/07/2022	Supplemental Surveys	HH1	3:00 starting at 11:30	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	No observations	AOD
22/07/2022	Supplemental Surveys	ML1	6:00 starting at 10:20	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No observations	AOD
05/04/2023	Supplemental Surveys	PE1	2:00 starting at 14:58	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Quiet survey and no Peregrine Falcon observed	LD
05/04/2023	Supplemental Surveys	PE1	1:00 starting at 16:58	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
06/04/2023	Supplemental Surveys	PE1	1:00 starting at 08:44	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Quiet survey, no Peregrine Falcon observed again, just a Sparrowhawk hunting.	LD
06/04/2023	Supplemental Surveys	PE1	2:03 starting at 09:44	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
18/04/2023	Supplemental Surveys	ML1	1:00 starting at 06:34	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Very quiet, with no merlin present. Golden plover calling from the heather, plus a possible ring ouzel heard on the hillside, although way off and windy	LD

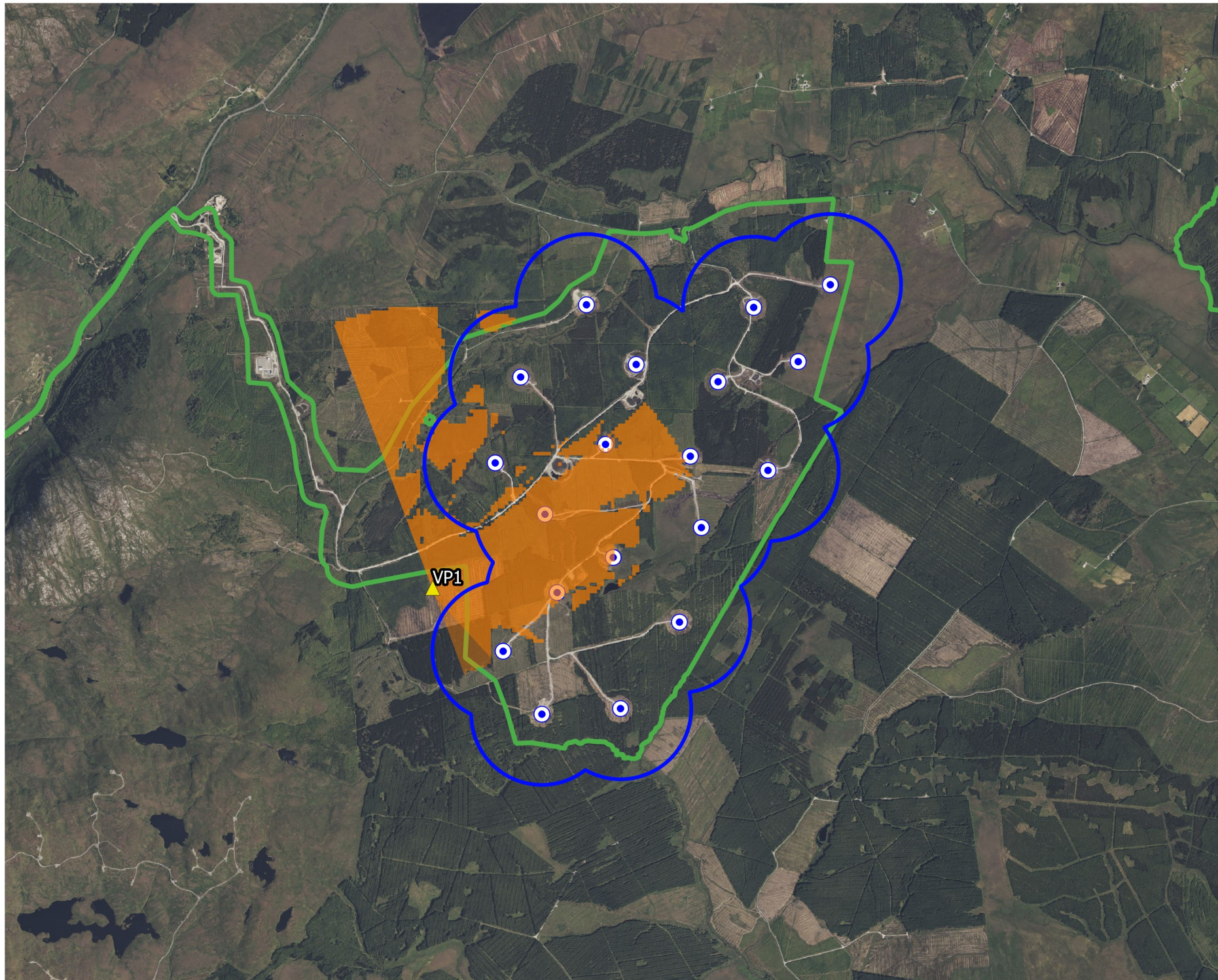
Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
18/04/2023	Supplemental Surveys	ML1	2:00 starting at 07:34	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
18/04/2023	Supplemental Surveys	ML1	1:00 starting at 09:34	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		LD
18/04/2023	Supplemental Surveys	ML1	1:00 starting at 10:34	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
18/04/2023	Supplemental Surveys	ML1	1:02 starting at 11:34	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
23/04/2023	Supplemental Surveys	HH2	6:30 starting at 13:45	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	vantage point for 3 hours followed by 3 hours of walking and mini vantage points	RV
25/04/2023	Supplemental Surveys	HH1	6:30 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	vantage point for 3 hours then walked track and mini vantage points	RV
03/05/2023	Supplemental Surveys	PE1	1:00 starting at 09:28	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Very quiet with no Falcons observed, Grey Wagtail travelling along the river, four Common Sandpipers close by on the edge of Lough Mourne	LD
03/05/2023	Supplemental Surveys	PE1	2:00 starting at 10:28	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
04/05/2023	Supplemental Surveys	PE1	1:00 starting at 08:02	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Very quiet, no Peregrine Falcons observed once again, Grey Wagtail pair present this time on the Lowerymore river	LD
04/05/2023	Supplemental Surveys	PE1	1:00 starting at 09:02	Visibility: good; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
04/05/2023	Supplemental Surveys	PE1	1:00 starting at 09:02	Visibility: good; Wind speed and direction: fresh breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
17/05/2023	Supplemental Surveys	HH1	3:00 starting at 06:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV
17/05/2023	Supplemental Surveys	HH1	3:00 starting at 10:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		RV
20/05/2023	Supplemental Surveys	ML1	3:00 starting at 14:30	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
21/05/2023	Supplemental Surveys	ML1	3:00 starting at 18:00	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
24/05/2023	Supplemental Surveys	HH2	3:00 starting at 13:10	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
27/05/2023	Supplemental Surveys	HH2	3:00 starting at 17:50	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		RV
07/06/2023	Supplemental Surveys	ML1	2:00 starting at 05:56	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	No merlin observed, found multiple pellets on four separate mounds	LD
07/06/2023	Supplemental Surveys	ML1	2:00 starting at 07:56	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
07/06/2023	Supplemental Surveys	ML1	2:32 starting at 09:56	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
20/06/2023	Supplemental Surveys	PE1	2:00 starting at 05:31	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	Excellent conditions, but no Falcons were seen or heard here once again, Common Sandpiper travelling along the river, plus a Sparrowhawk passing by Lough Mourne	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/06/2023	Supplemental Surveys	PE1	1:00 starting at 07:31	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
25/06/2023	Supplemental Surveys	HH2	3:00 starting at 06:00	Visibility: good; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Mix of mini vantage points and walking around site	RV
25/06/2023	Supplemental Surveys	HH2	3:00 starting at 09:30	Visibility: good; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Mix of mini vantage points and walking around site	RV
26/06/2023	Supplemental Surveys	PE1	1:00 starting at 09:09	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none	Occasional showers, but blue skies and activity in between, adult Peregrine observed twice, plus a possible juvenile near nest site	LD
26/06/2023	Supplemental Surveys	PE1	2:08 starting at 10:09	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
05/07/2023	Supplemental Surveys	HH1	1:00 starting at 06:32	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Bright and calm, with a couple of showers, grey wagtail and a buzzard were observed, no hen harrier activity	LD
05/07/2023	Supplemental Surveys	HH1	1:00 starting at 07:32	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
05/07/2023	Supplemental Surveys	HH1	1:00 starting at 07:32	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		LD
11/07/2023	Supplemental Surveys	HH1	2:00 starting at 09:06	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Occasional showers, but blue skies in between, quiet, just a grey wagtail seen, great spotted woodpecker heard calling	LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/07/2023	Supplemental Surveys	HH1	1:03 starting at 11:06	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
11/07/2023	Supplemental Surveys	HH2	3:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Some light showers later in vantage point	RV
11/07/2023	Supplemental Surveys	HH2	3:00 starting at 15:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		RV
12/07/2023	Supplemental Surveys	PE1	1:00 starting at 07:01	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light rain at times, but good conditions in between, a Snipe was heard calling in flight, an immature Golden Eagle was observed twice, followed by an adult Peregrine in the same location	LD
12/07/2023	Supplemental Surveys	PE1	1:00 starting at 08:01	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
12/07/2023	Supplemental Surveys	PE1	1:16 starting at 09:01	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
17/07/2023	Supplemental Surveys	PE1	1:00 starting at 07:54	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	An early shower, then sunny spells and blue skies, no Peregrine or Golden Eagle observed here today though, despite the good conditions, just a Snipe heard calling in flight	LD
17/07/2023	Supplemental Surveys	PE1	2:08 starting at 08:54	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: light showers; Frost: none; Snow: none		LD

Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
17/07/2023	Supplemental Surveys	ML1	1:00 starting at 14:42	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Odd shower, female merlin was observed hunting here for the first time this season	LD
17/07/2023	Supplemental Surveys	ML1	1:00 starting at 15:42	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
17/07/2023	Supplemental Surveys	ML1	1:30 starting at 16:42	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD
19/07/2023	Supplemental Surveys	ML1	1:00 starting at 14:44	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Fine drizzle at times and very quiet, no observations	LD
19/07/2023	Supplemental Surveys	ML1	2:28 starting at 15:44	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		LD
21/07/2023	Supplemental Surveys	HH1	2:00 starting at 07:04	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Fine rain and showers this morning, few birds seen in flight within the forestry, and no hen harriers recorded	LD
21/07/2023	Supplemental Surveys	HH1	1:06 starting at 09:04	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
24/07/2023	Supplemental Surveys	HH1	1:00 starting at 08:56	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	A quiet survey period once again, buzzard heard calling from forestry and the grey wagtail seen foraging by the pool	LD
24/07/2023	Supplemental Surveys	HH1	1:00 starting at 09:56	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		LD
24/07/2023	Supplemental Surveys	HH1	1:00 starting at 10:56	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		LD



- Map Legend
- Site Boundary
 - Proposed Turbine Locations
 - 500m Buffer of Proposed Turbine Locations
 - Vantage Point Survey Locations
 - Viewshed



Drawing Title

Vantage Point
Survey Locations VP1

Project Title

Meenbog Wind Farm,
Co. Donegal

Drawn By

KB

Checked By

SD

Project No.

240505

Drawing No.

Fig. 7-1-1

Scale

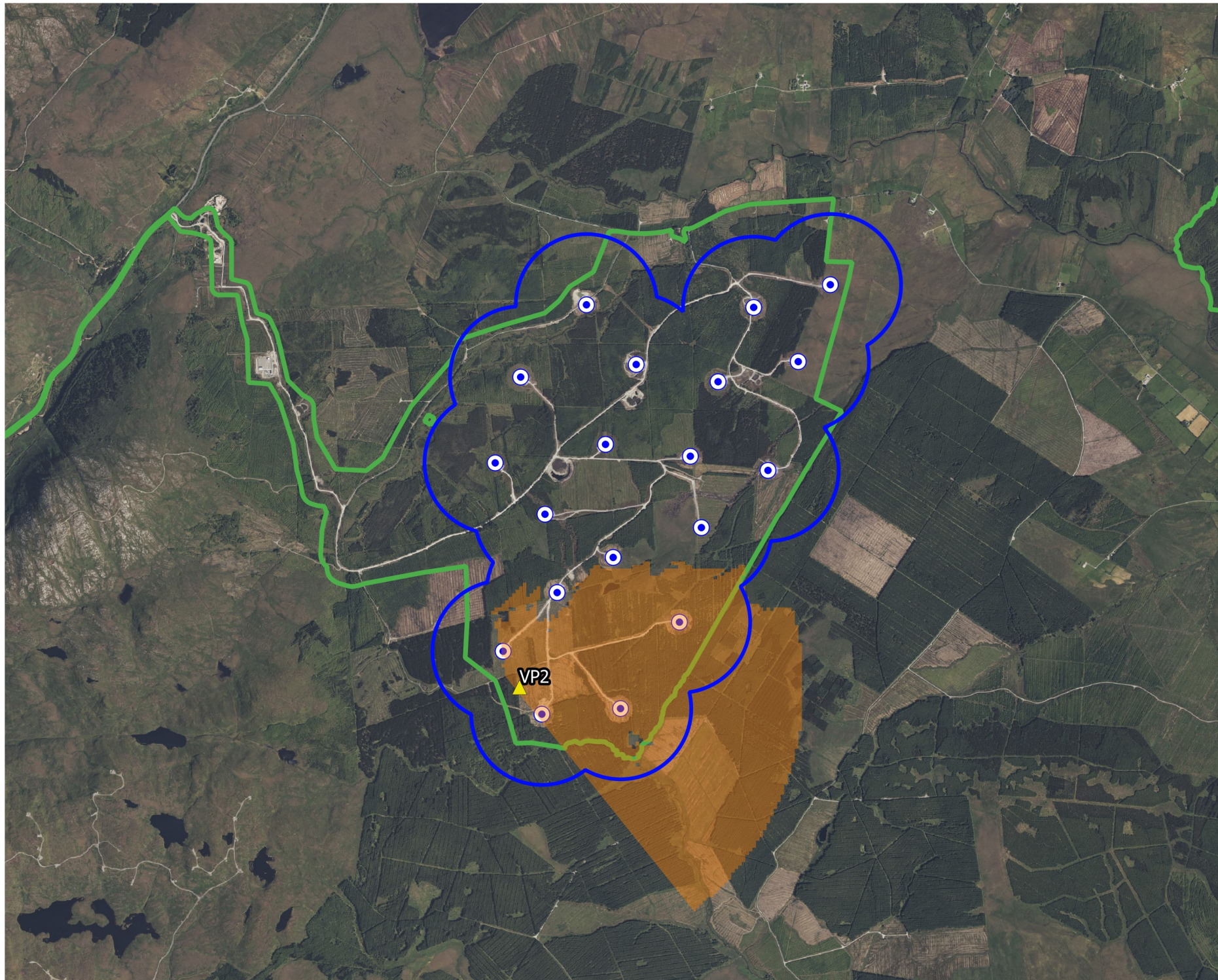
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Date

18.02.2026



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- Map Legend
- Site Boundary
 - Proposed Turbine Locations
 - 500m Buffer of Proposed Turbine Locations
 - Vantage Point Survey Locations
 - Viewshed



Drawing Title

Vantage Point Survey Locations VP2

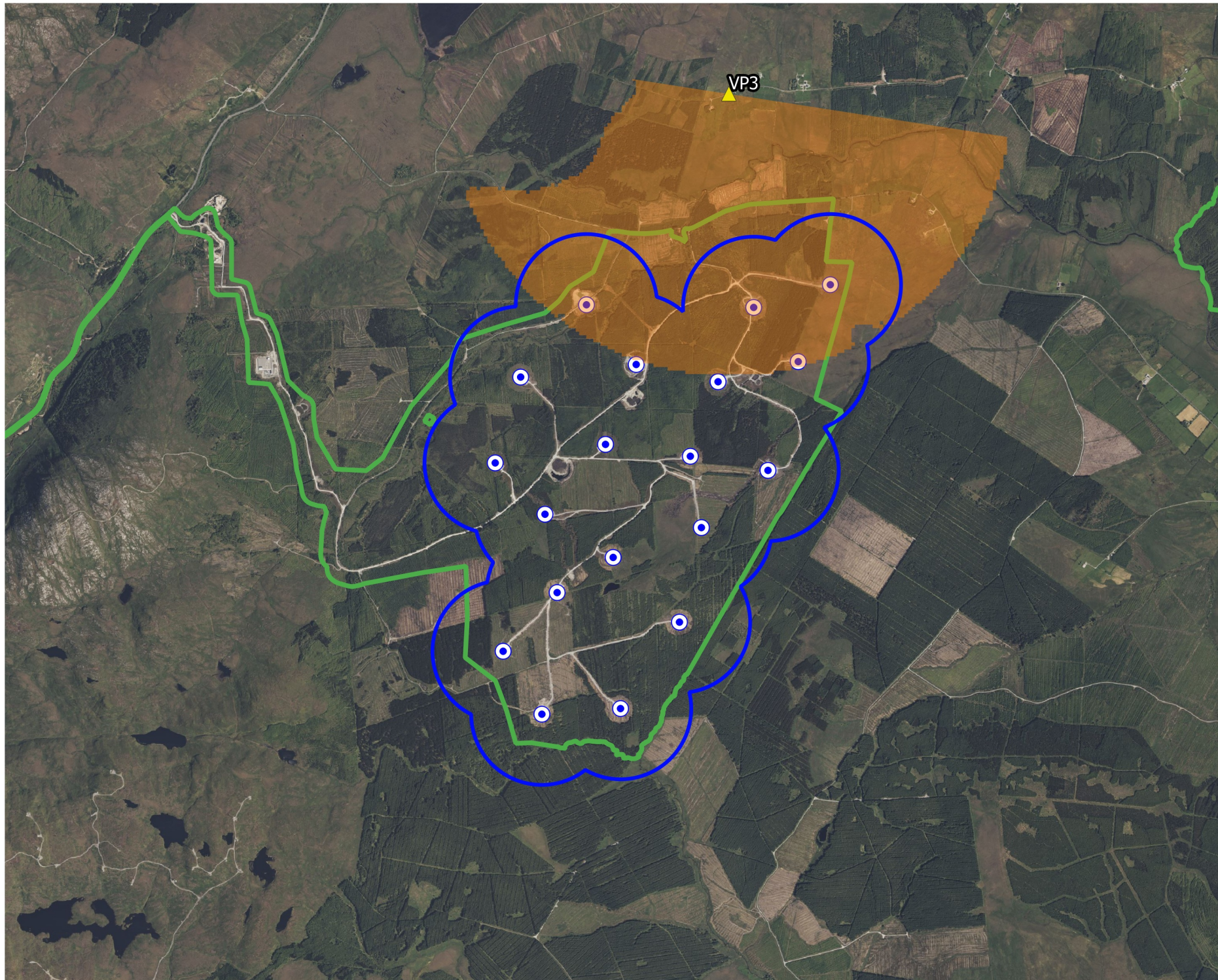
Project Title

Meenbog Wind Farm, Co. Donegal

Drawn By	KB	Checked By	SD
Project No.	240505	Drawing No.	Fig. 7-1-2
Scale	1:35,000	Date	18.02.2026

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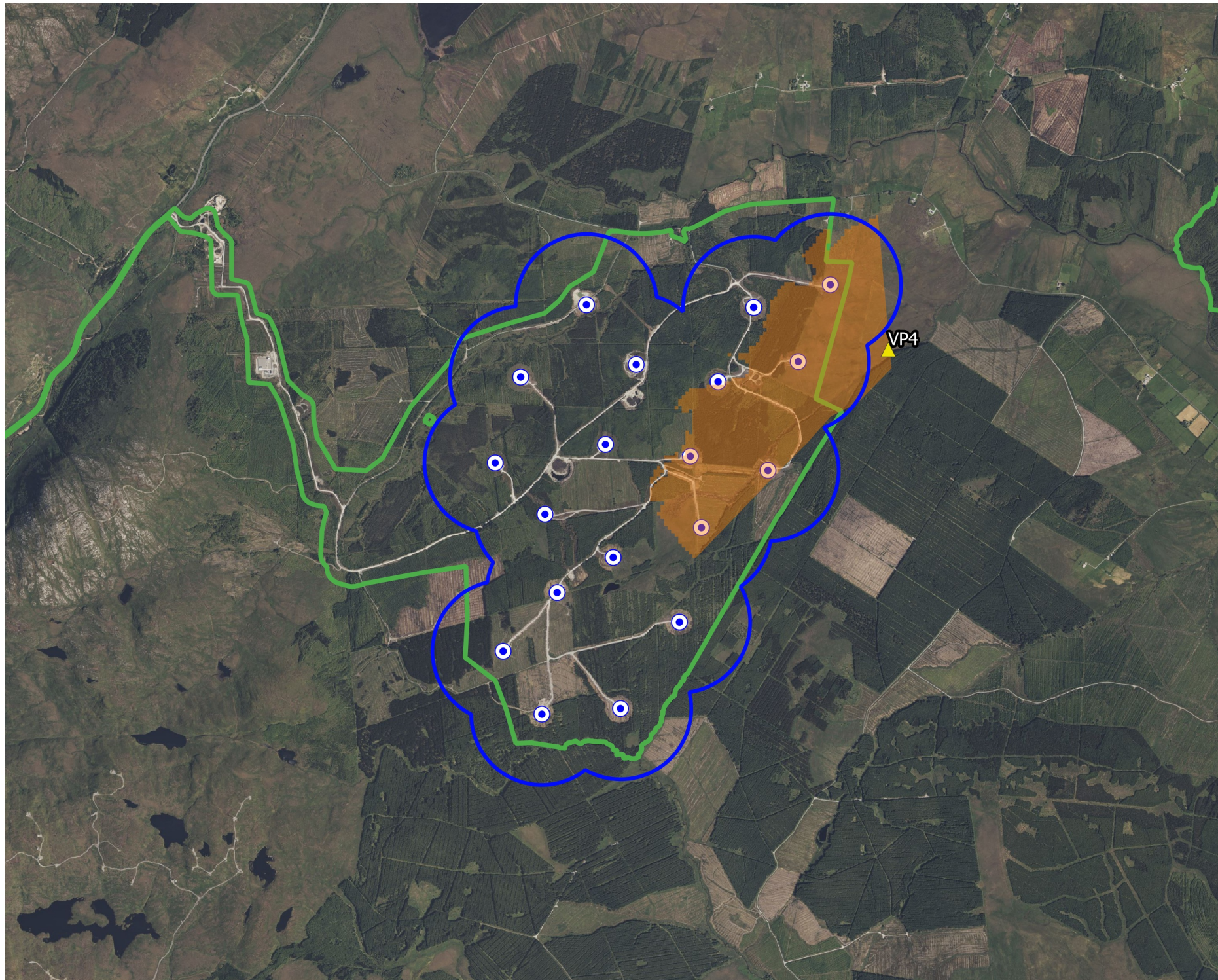
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- Map Legend
- Site Boundary
 - Proposed Turbine Locations
 - 500m Buffer of Proposed Turbine Locations
 - Vantage Point Survey Locations
 - Viewshed



Drawing Title	
Vantage Point Survey Locations VP3	
Project Title	
Meenbog Wind Farm, Co. Donegal	
Drawn By	Checked By
KB	SD
Project No.	Drawing No.
240505	Fig. 7-1-3
Scale	Date
1:35,000	18.02.2026
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- Map Legend
- Site Boundary
 - Proposed Turbine Locations
 - 500m Buffer of Proposed Turbine Locations
 - Vantage Point Survey Locations
 - Viewshed



Drawing Title

Vantage Point Survey Locations VP4

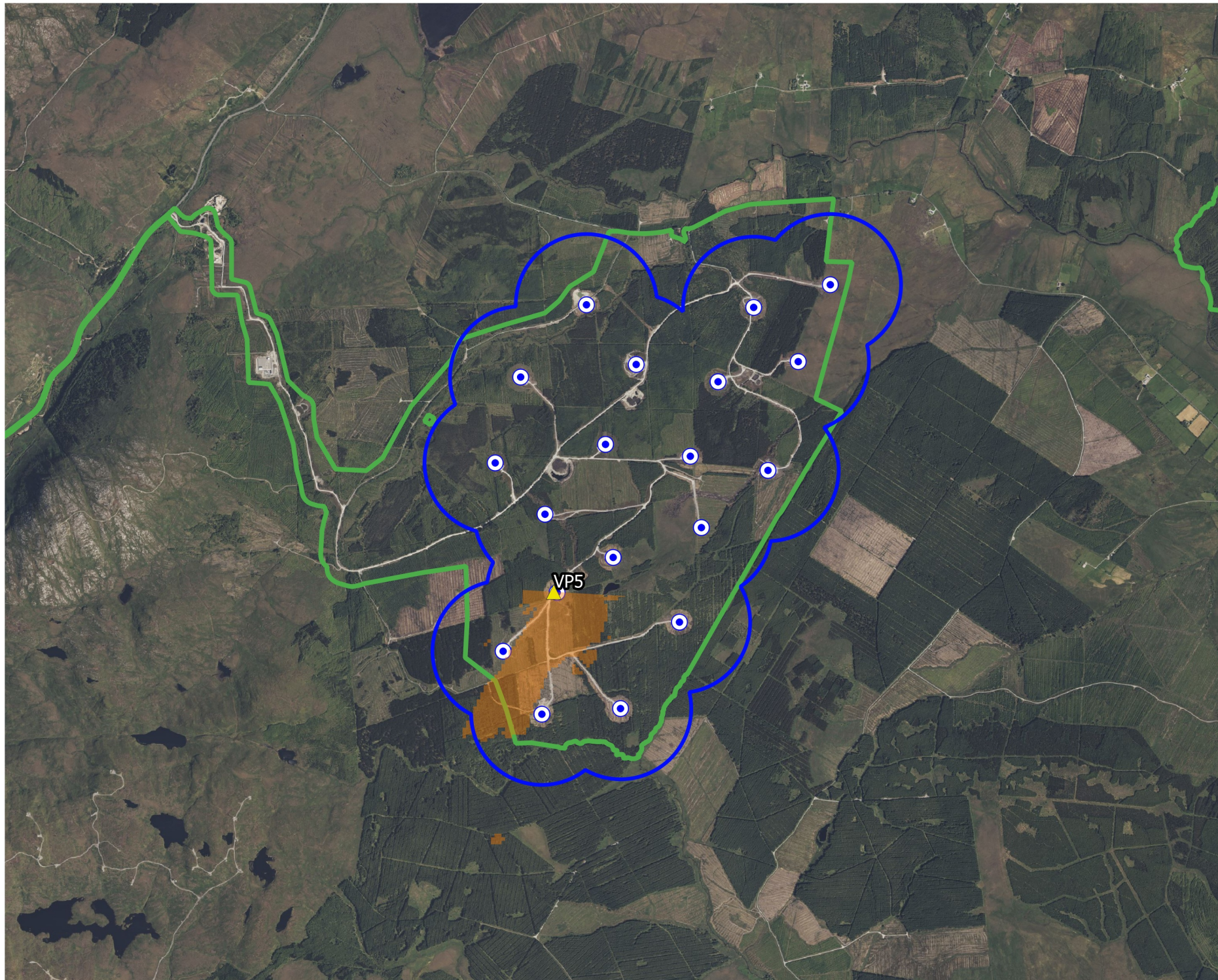
Project Title

Meenbog Wind Farm, Co. Donegal

Drawn By	KB	Checked By	SD
Project No.	240505	Drawing No.	Fig. 7-1-4
Scale	1:35,000	Date	18.02.2026

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Map Legend

- Site Boundary
- Proposed Turbine Locations
- 500m Buffer of Proposed Turbine Locations
- Vantage Point Survey Locations
- Viewshed



Drawing Title

Vantage Point
Survey Locations VP5

Project Title

Meenbog Wind Farm,
Co. Donegal

Drawn By

KB

Checked By

SD

Project No.

240505

Drawing No.

Fig. 7-1-5

Scale

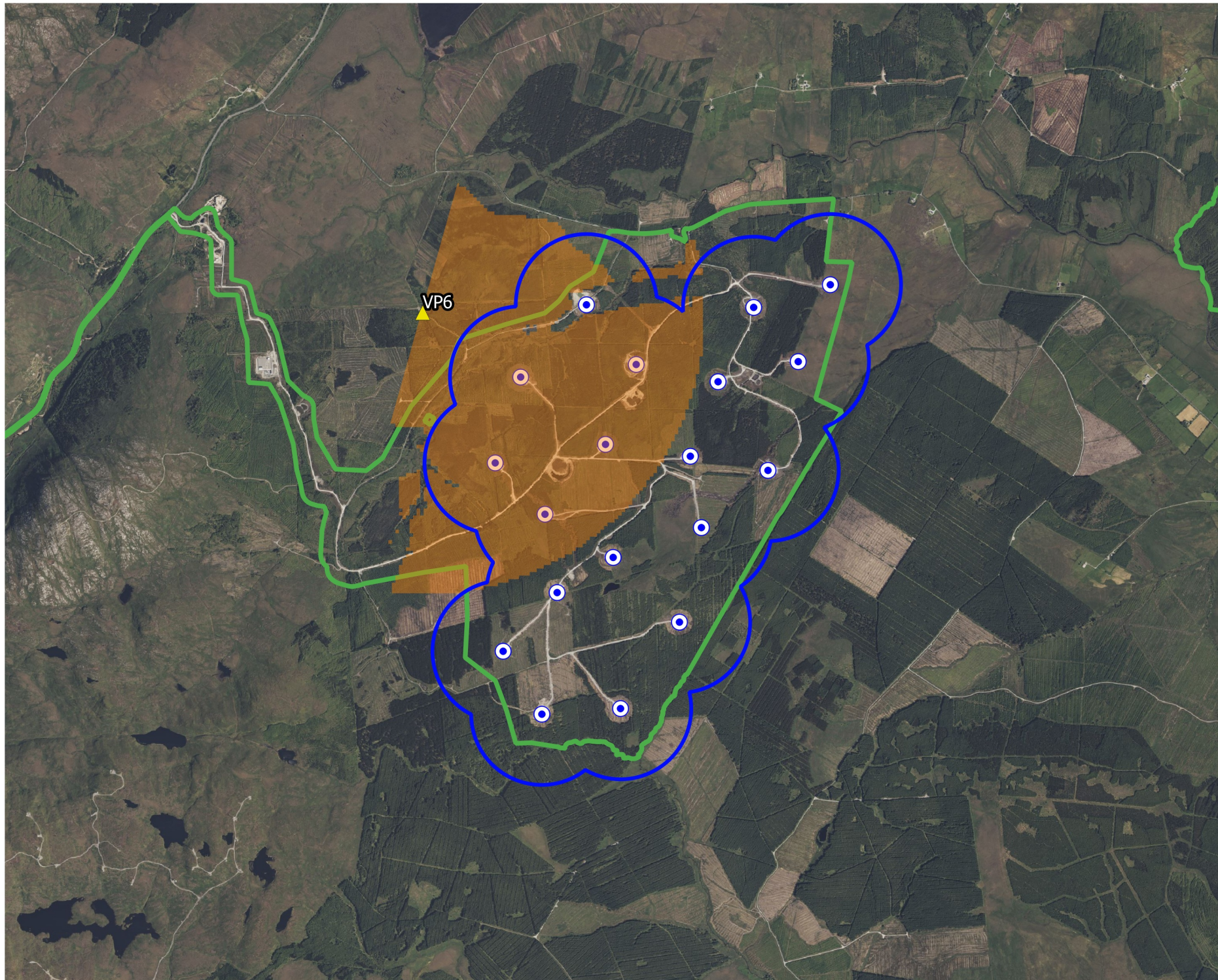
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Date

18.02.2026



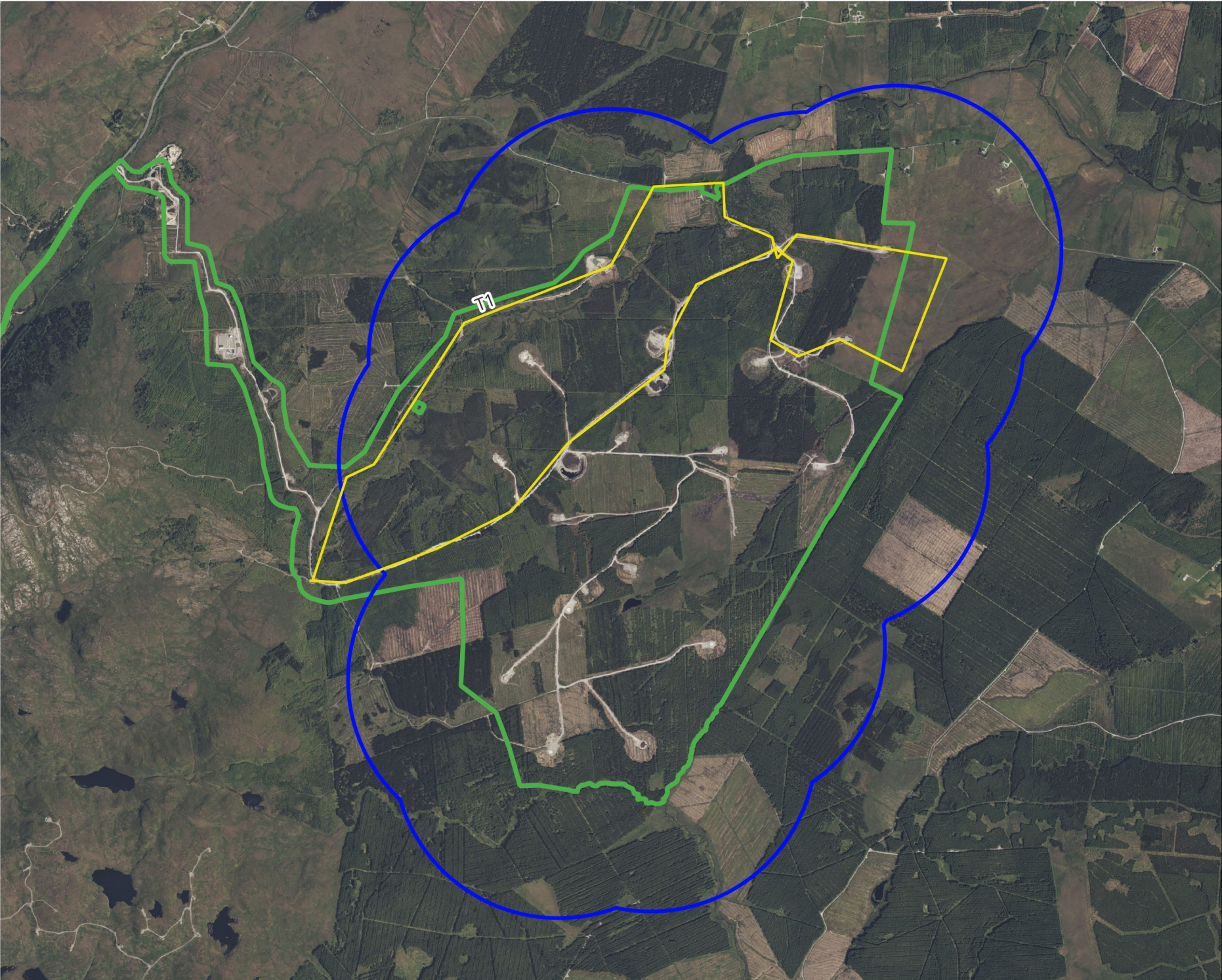
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- Map Legend
- Site Boundary
 - Proposed Turbine Locations
 - 500m Buffer of Proposed Turbine Locations
 - Vantage Point Survey Locations
 - Viewshed



Drawing Title	
Vantage Point Survey Locations VP6	
Project Title	
Meenbog Wind Farm, Co. Donegal	
Drawn By	Checked By
KB	SD
Project No.	Drawing No.
240505	Fig. 7-1-6
Scale	Date
1:35,000	18.02.2026
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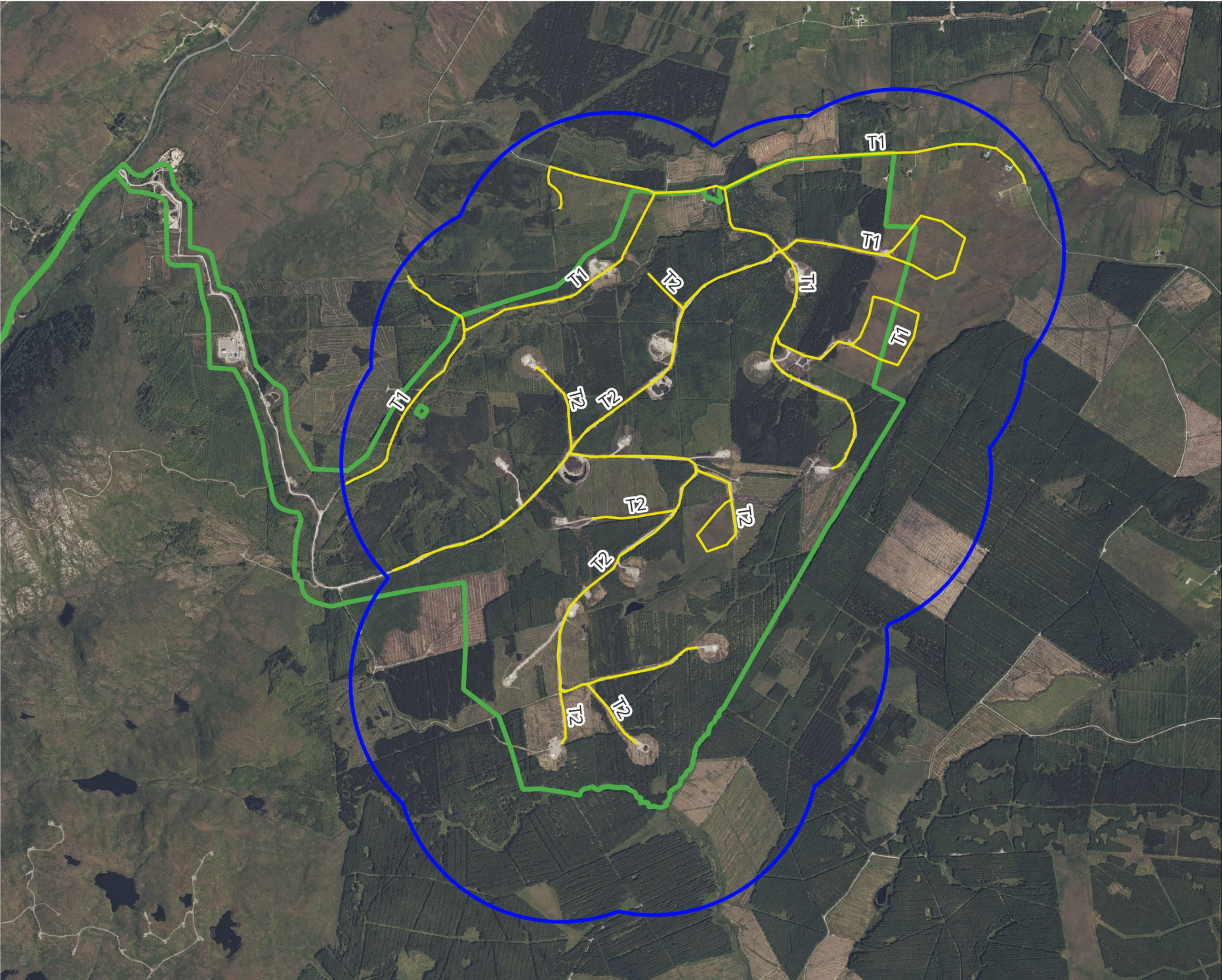


Map Legend

- Site Boundary
- 500m Survey Area
- Transect



Drawing Title	
Winter Walkover Transect	
Project Title	
Meenbog Wind Farm, Co. Donegal	
Drawn By	Checked By
KB	SD
Project No.	Drawing No.
240505	Fig. 7-1-7
Scale	Date
1:30,000	18.02.2026
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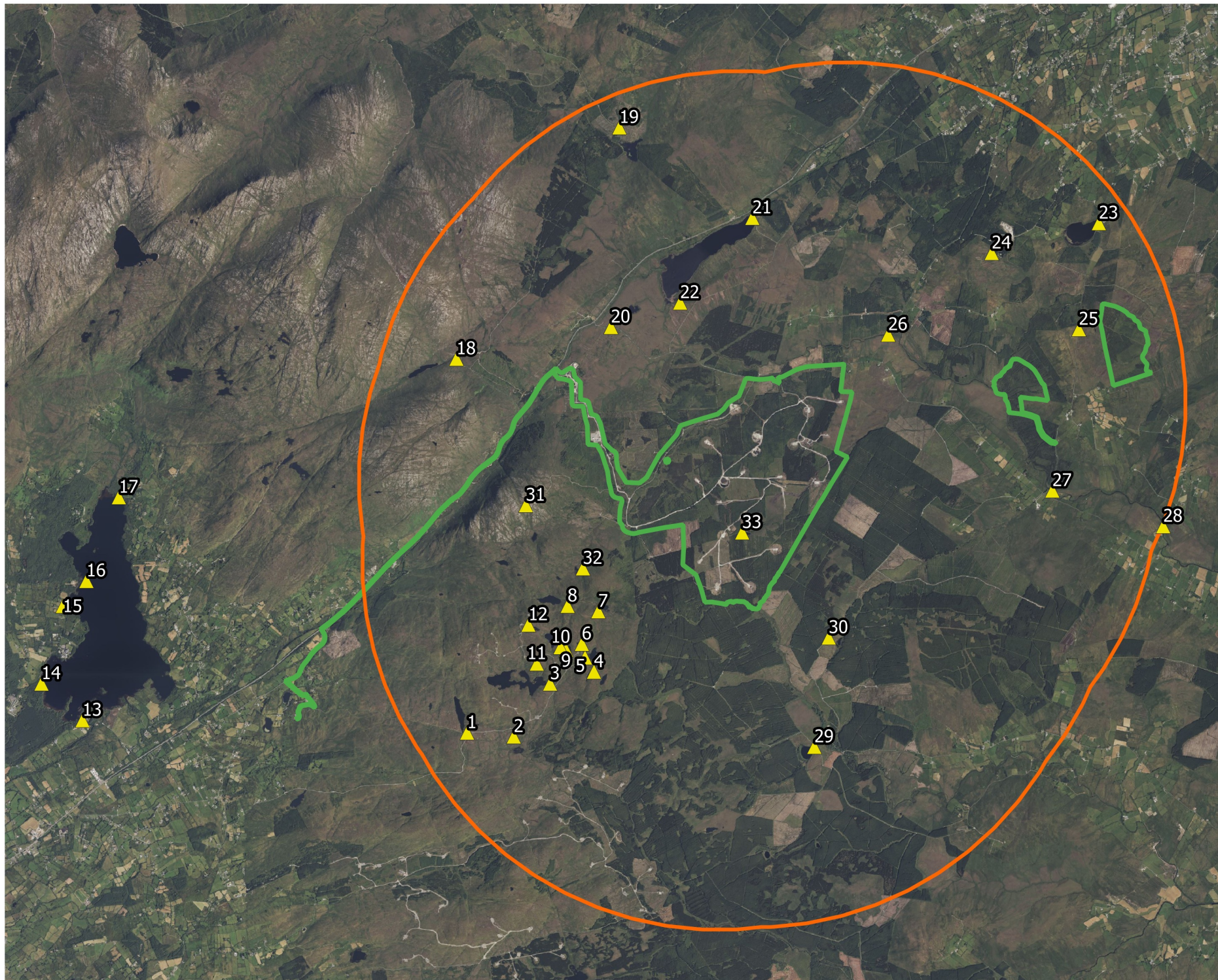


Map Legend

- Site Boundary
- 500m Survey Area
- Transect



Drawing Title	
Breeding Walkover Transects	
Project Title	
Meenbog Wind Farm, Co. Donegal	
Drawn By	Checked By
KB	SD
Project No.	Drawing No.
240505	Fig. 7-1-8
Scale	Date
1:30,000	18.02.2026
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- Map Legend
- Site Boundary
 - 5km Survey Area
 - Survey Locations



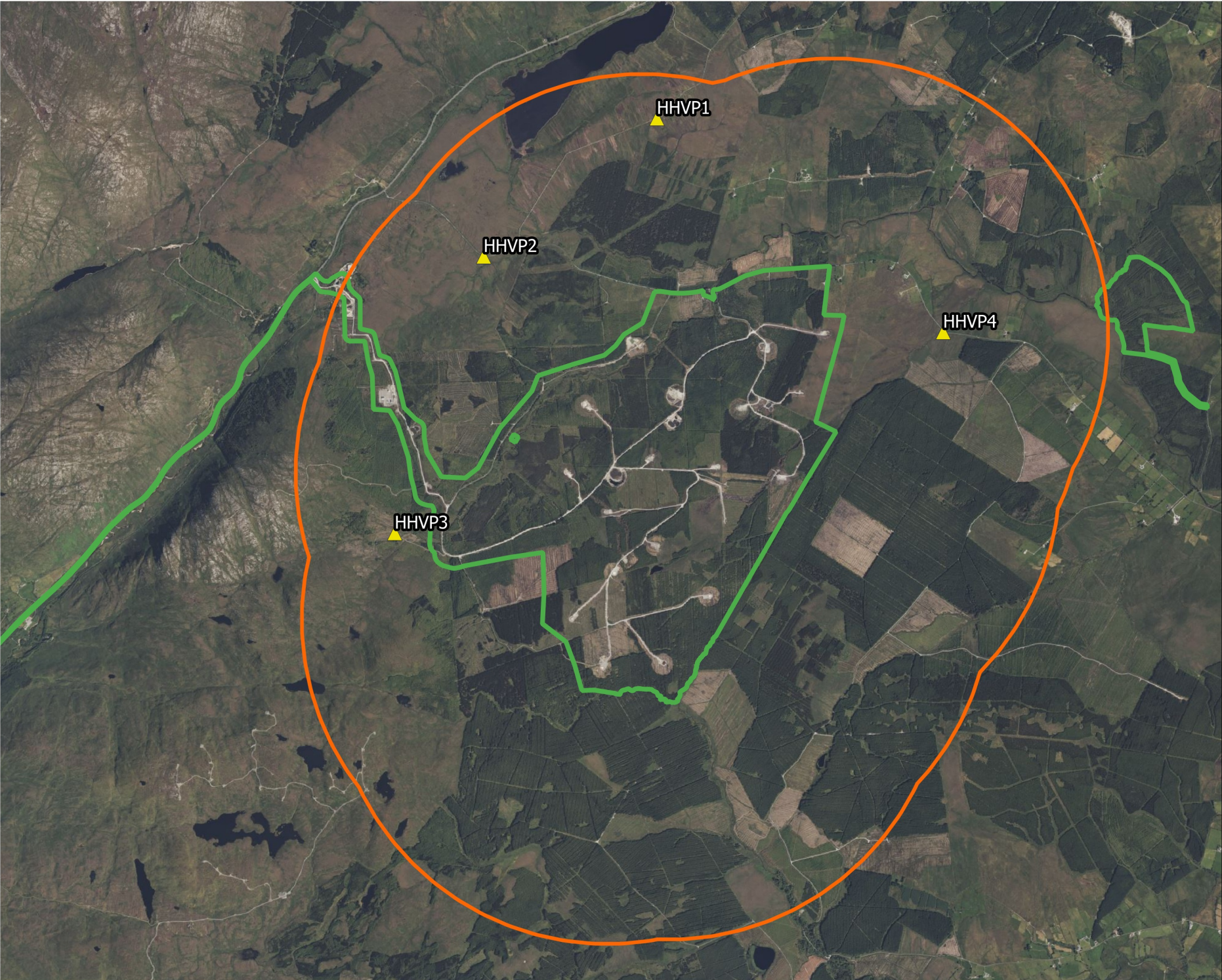
Drawing Title
Waterbird Distribution and Abundance Survey Locations

Project Title
Meenbog Wind Farm, Co. Donegal

Drawn By KB	Checked By SD
Project No. 240505	Drawing No. Fig. 7-1-9
Scale 1:80,000	Date 18.02.2026

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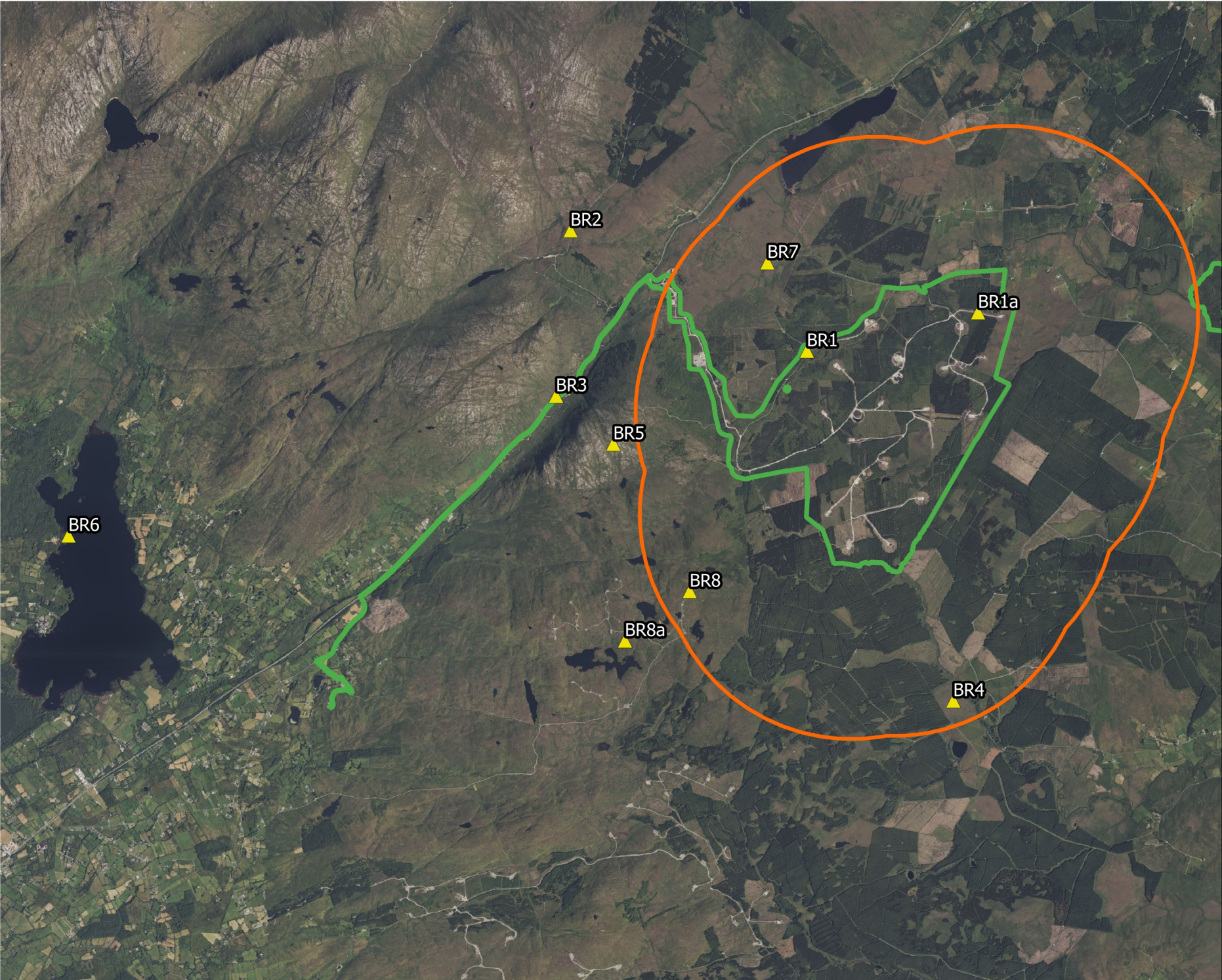


Map Legend

- Site Boundary
- 2km Survey Area
- Survey Locations



Drawing Title	
Hen Harrier Roost Survey Locations	
Project Title	
Meenbog Wind Farm, Co. Donegal	
Drawn By	Checked By
KB	SD
Project No.	Drawing No.
240505	Fig. 7-1-10
Scale	Date
1:45,000	18.02.2026
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Map Legend

- Site Boundary
- 2km Survey Area
- Survey Locations
- Transect



Drawing Title
**Breeding Raptor
Survey Locations**

Project Title
**Meenbog Wind Farm,
Co. Donegal**

Drawn By
KB

Checked By
SD

Project No.
240505

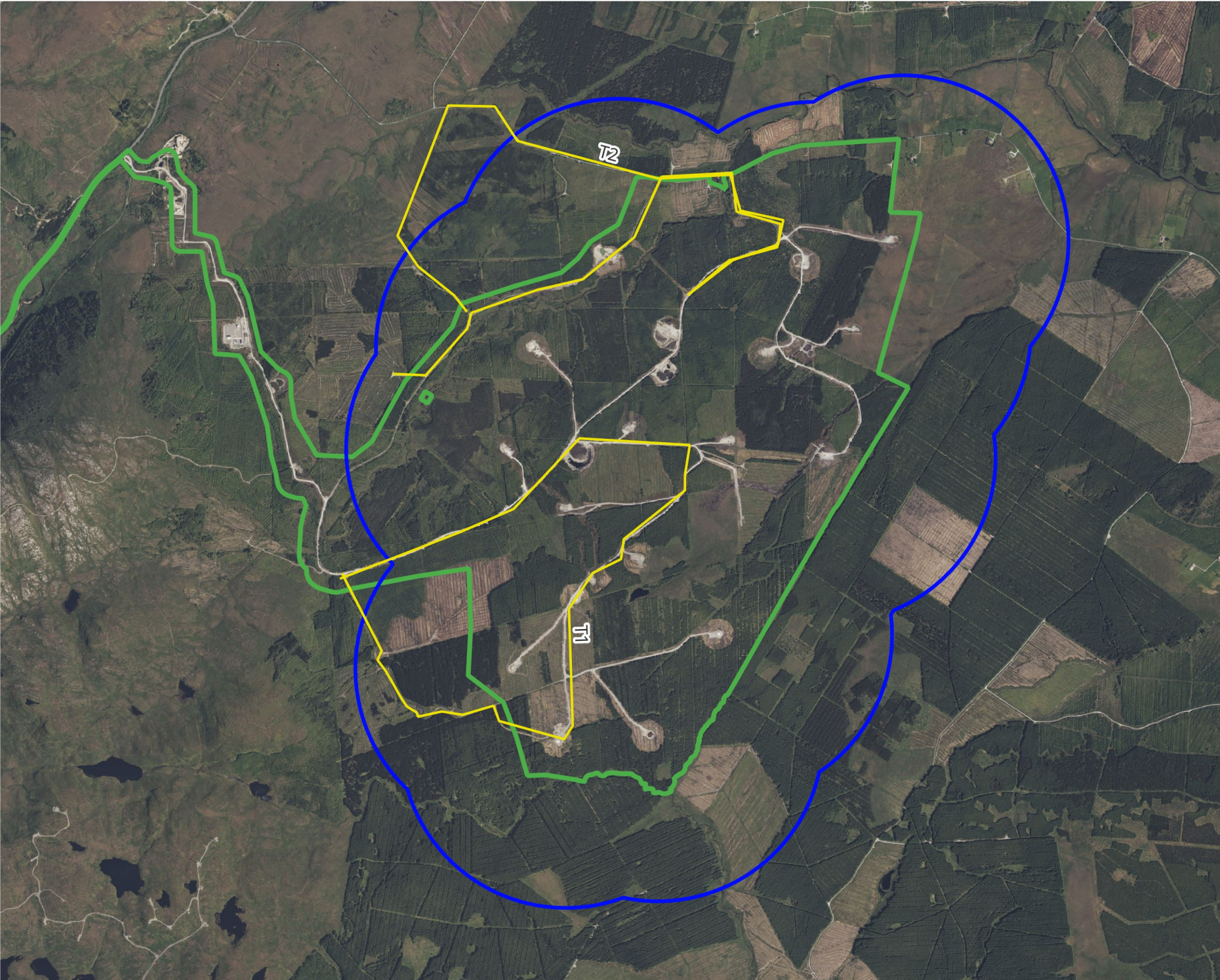
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Fig. 7-1-11

Scale
1:65,000

Date
18.02.2026

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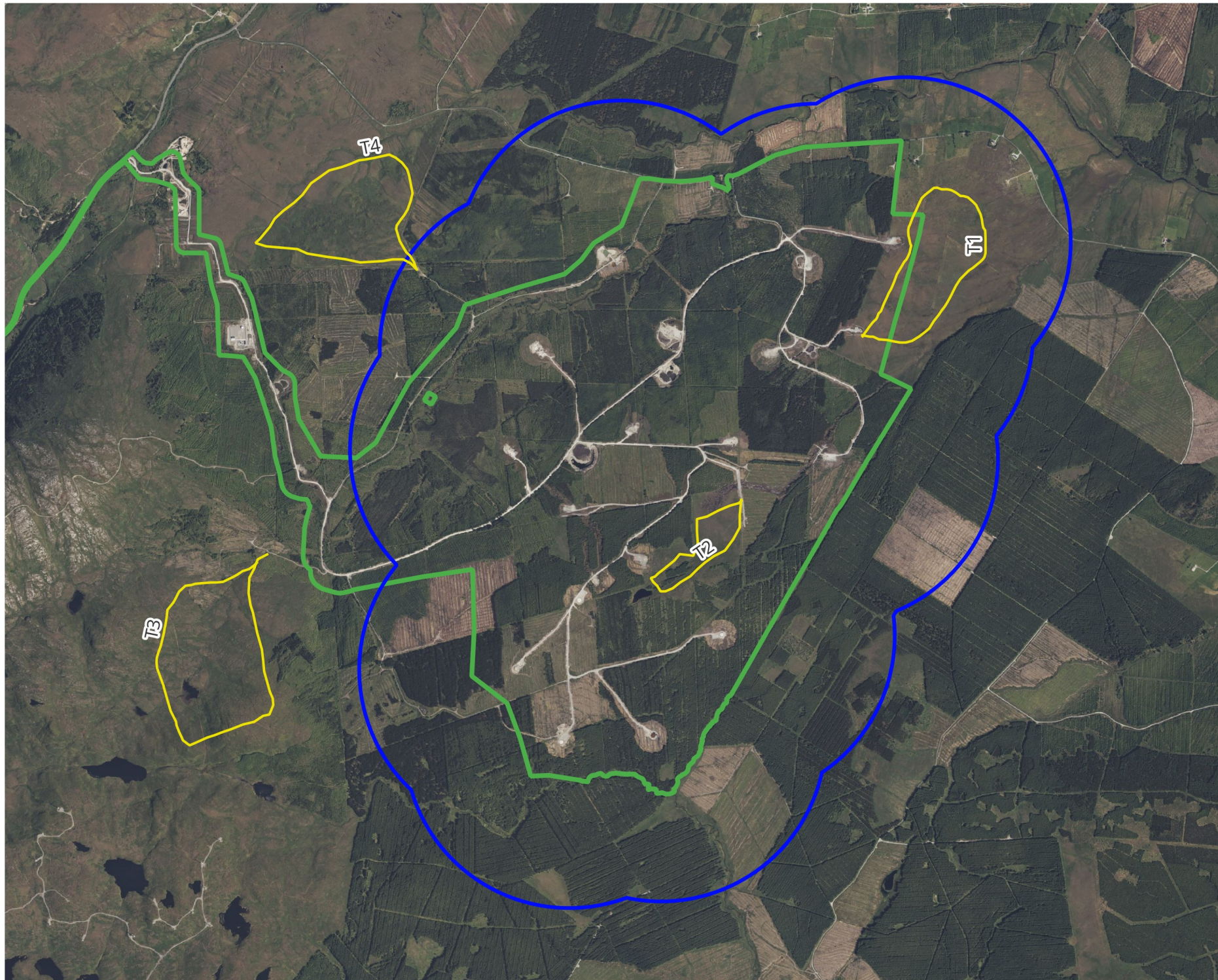


Map Legend

- Site Boundary
- 500m Survey Area
- Transects



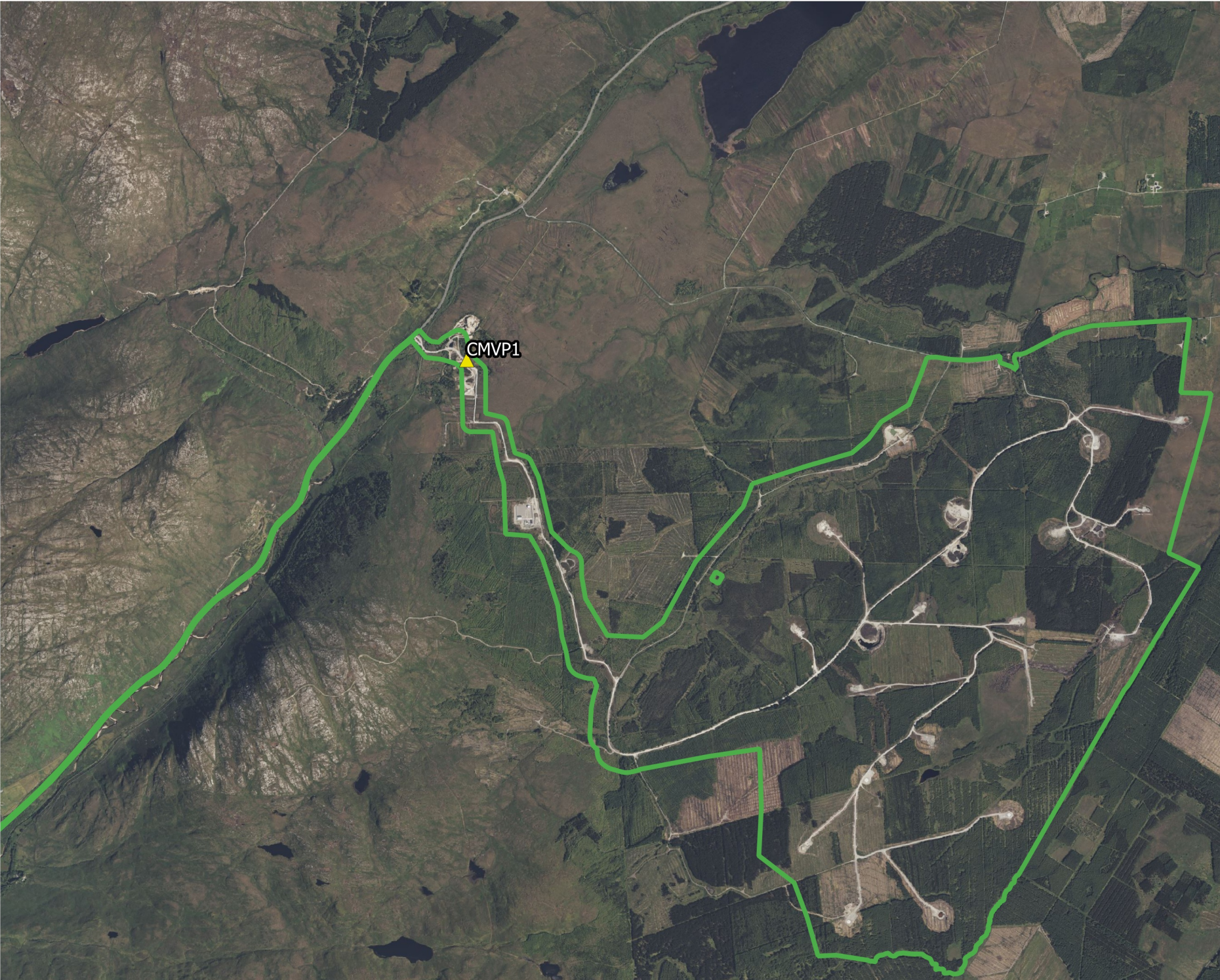
Drawing Title	
Breeding Woodcock Survey Locations	
Project Title	
Meenbog Wind Farm, Co. Donegal	
Drawn By	Checked By
KB	SD
Project No.	Drawing No.
240505	Fig. 7-1-12
Scale	Date
1:30,000	18.02.2026
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- Map Legend
- Site Boundary
 - 500m Survey Area
 - Transects



Drawing Title	
Breeding Red Grouse Survey Locations	
Project Title	
Meenbog Wind Farm, Co. Donegal	
Drawn By	Checked By
KB	SD
Project No.	Drawing No.
240505	Fig. 7-1-13
Scale	Date
1:30,000	18.02.2026
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Map Legend

- Site Boundary
- Survey Location



Drawing Title	
Connectivity Vantage Point Survey Location	
Project Title	
Meenbog Wind Farm, Co. Donegal	
Drawn By	Checked By
KB	SD
Project No.	Drawing No.
240505	Fig. 7-1-14
Scale	Date
1:30,000	18.02.2026
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Website: ww.mkofireland.ie	



Map Legend

- Site Boundary
- Survey Locations



Drawing Title	
Breeding Red-throated Diver Survey Locations	
Project Title	
Meenbog Wind Farm, Co. Donegal	
Drawn By	Checked By
KB	SD
Project No.	Drawing No.
240505	Fig. 7-1-15
Scale	Date
1:30,000	18.02.2026
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An Roinn Tithíochta,
Rialtais Áitiúil agus Oidhreacht
Department of Housing,
Local Government and Heritage

Licence No. 004/2024

NATIONAL PARKS & WILDLIFE SERVICE

Wildlife Acts 1976 to 2018 - Section 35

Minister for Housing Local Government and Heritage, in exercise of the powers conferred on the Minister by Section 35 of the Wildlife Acts 1976 to 2018 authorises:

Applicant: Andrew O'Donoghue, Eoghan Phelan, Lee Dark, Niall McHugh, Conor Rowlands, Niamh Scanlon, John Downes, Cillian Murphy

**Address: MKO Ltd
Tuam Road,
Co Galway**

To use the means specified in column 1 for to assist in the management of the species specified in Column 2
**TO ASSESS THE DISTRIBUTION OF RED GROUSE (*LAGOPUS LAGOPUS*) AT THE SURROUNDING AREAS AT
PROPOSED MEENBOG WINDFARM CO. DONEGAL**
in the area's specified in column 3 during the period from the
26 January 2024 to 31 March 2024

Subject to the conditions listed overleaf.

SCHEDULE

1	2	3
TYPE OF DEVICE	SPECIES	AREA
Tape Lure	Red Grouse	Meenbog, Croaghonagh Co Donegal

Dated 26 January 2024

For the Minister for Housing Local Government and Heritage

Claire Rowley

Conditions

1. This licence shall be produced for inspection on a request being made on that behalf by a member of An Garda Síochána or any person appointed by the Minister for Housing, Local Government and Heritage, under Section 72 of the Wildlife Acts 1976 to 2018, to be an authorised person for the purpose of the Acts.
2. This licence may be revoked at any time by the Minister.
3. **Note:** This licence is valid only for licensee stated overleaf.
4. **Note:** This licence does not permit the applicant the right to enter to cross over or to shoot over any land(s) without the landowner's permission.
5. **Note:** This licence does not permit the use of mechanically propelled, electrical or battery operated decoys.
6. **Note:** This licence does not permit the use of Hawk or Owl decoys.
7. **Note:** NPWS Officers may carry-out spot checks on the exercise of this licence and the licence holder will be deemed to have agreed to this by virtue of having accepted this licence.
8. **Note:** All hunting and trapping of predators must be by recognised humane methods and be in full accordance with provisions of the Wildlife Acts 1976 and 2018.
9. **Note: (a)** The use of cage traps is allowed as a control method for certain species. Any traps used must comply with the relevant traps and snares regulations, (Wildlife Act 1976 (Approved Traps, Snares and Nets) Regulations 2003, and Section 35(5) of the Wildlife Act. **(b)** Where a live wild bird is used as a decoy it is necessary to ensure that the live decoy bird may only be used to hunt birds of the same species and that the live decoy bird must be regularly provided with ample food and water and that when caged must only be kept in a cage which is of sufficient dimensions to enable the bird to move and exercise freely.
10. Any query in relation to this licence should be emailed to:

wildlifelicence@npws.gov.ie





An Roinn Tithíochta,
Rialtais Áitiúil agus Oidhreacht
Department of Housing,
Local Government and Heritage

Licence No. 009/2025

NATIONAL PARKS & WILDLIFE SERVICE

Wildlife Acts 1976 to 2018 - Section 35

Minister for Housing Local Government and Heritage, in exercise of the powers conferred on the Minister by Section 35 of the Wildlife Acts 1976 to 2018 authorises:

Applicant: Andrew O'Donoghue, Niall McHugh, Lee Dark, Cillian Murphy, John Downes, Niamh Scanlon

**Address: MKO,
Tuam Road,
Co Galway
Ireland**

To use the means specified in column 1 for to assist in the management of the species specified in Column 2
To Assess the distribution of Red Grouse at the surrounding Meenbog windfarm

in the area's specified in column 3 during the period from the
04 March 2025 to 31 March 2025

Subject to the conditions listed overleaf.

SCHEDULE

1	2	3
TYPE OF DEVICE	SPECIES	AREA
Tap Lure	Red Grouse	Meenbog Co Donegal

Dated 4 March 2025

For the Minister for Housing Local Government and Heritage

Claire Bowley

Conditions

1. This licence shall be produced for inspection on a request being made on that behalf by a member of An Garda Síochána or any person appointed by the Minister for Housing, Local Government and Heritage, under Section 72 of the Wildlife Acts 1976 to 2018, to be an authorised person for the purpose of the Acts.
2. **It is an offence under Section 69(6) of the Wildlife Acts to contravene a condition, attached to a licence or permission, granted by the Minister**
3. This licence may be revoked at any time by the Minister.
4. This licence does not permit the applicant the right to enter or cross over any land(s) without the landowner's permission.
5. Lure should be used to complement (not replace) other survey methods.
6. NPWS Officers may carry-out spot checks on the exercise of this licence and the licence holder will be deemed to have agreed to this by virtue of having accepted this licence.

Note: (a) The use of cage traps is allowed as a control method for certain species. Any traps used must comply with the relevant traps and snares regulations, (Wildlife Act 1976 (Approved Traps, Snares and Nets) Regulations 2003, and Section 35(5) of the Wildlife Act.

Any query in relation to this licence should be emailed to:

wildlifelicence@npws.gov.ie



Key to Ornithological Survey Initials

Initials	Surveyor Name
AOD	Andrew O'Donoghue
CD	Colin Delahunt
CM	Cillian Murphy
EP	Eoghan Phelan
FM	Finbarr McGroarty
FOD	Fionn O'Donoghue
JD	John Downes
LD	Lee Dark
MD	Megan Doyle
NM	Niall McHugh
NS	Niamh Scanlon
RV	Robert Vaughan
SD	Shawn Dowdall
SF	Shay Fenelly
TR	Tom Ryan

CV's and Biopics for ornithological Surveys are provided overleaf



Andrew O'Donoghue

CURRICULUM VITAE

Andrew O'Donoghue is a project ornithologist with MKO. Since joining MKO in January 2017, Andrew has been involved as an ornithologist on several wind energy and energy infrastructure projects. Andrew is currently responsible for managing projects and a team of surveyors carrying out surveys in the northwest as part of the wider ornithology team. Projects completed and ongoing have involved upland bird habitats involving the locating and monitoring of ecologically sensitive bird species including hen harrier, merlin, and curlew. Key strengths and areas of expertise are in bird surveying techniques, species identification, nest/roost location, and project management. Before working with MKO, Andrew worked with Birdwatch Ireland on a seabird conservation project, as a sub-contract bird surveyor for Scott Cawley Ltd. In Dublin and has completed a field research internship with the University of Saskatchewan in Canada. Andrew holds BSc (Hons) in Zoology from University College Dublin.

Current Role	> Project Ornithologist
Qualifications	> BSc (Hons) Zoology University College Dublin
Years of Experience	10 years' experience bird surveying and field-based research positions. > 2017-Present: MKO. > 2016: Subcontract surveyor for Scott Cawley Ltd. > 2016: University of Saskatchewan, Canada, field research internship. > 2015: Birdwatch Ireland, Little Tern Project Baltray Co. Louth.
Relevant Experience	> Project Management > 8 years' experience locating and monitoring breeding and wintering sites of hen harrier and other ecologically sensitive bird species across the northwest. > Team Management of ornithologists and subcontract ornithologists. > Field-based training of ornithologists in bird survey methods and breeding raptor/wader monitoring. > Planning and carrying out ornithological surveys in accordance with SOPs. > Working independently and effectively in the field. > Liaising with sub-contractors and management. > Reporting of data and GIS mapping for inclusion in EIS.
Practical Skills & Aptitudes	> Bird ecology, ID, nest and winter roost location and monitoring. > Project Management and Planning > Experience completing a range of ornithological survey techniques in accordance to required standards. > Bird ecology and identification. > Data management. > GIS.
Interpersonal & Communication Skills	> Liaising with landowners and the public on potentially sensitive projects. > Gathering information on difficult to survey and sensitive species. > Training field ornithologists. > Contributing to proven successful conservation programs.



Licenses Held

- > Full clean EU driving license.
 - > Safe Pass.
-



MKO, Tuam Road, Galway, Ireland. H91 VW84

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Cillian Murphy

CURRICULUM VITAE

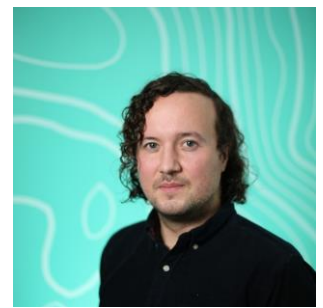
Current role	Field Ornithologist
Qualifications	> BSc Nautical Science. > PGDip Environmental Protection. > First Aid Response. > Conflict Management QQI6
Memberships	> RNLI
Years of experience	> One year as Ornithologist > Seven years in Irish environmental sector
Relevant experience	> Cillian has worked on seven windfarm projects both operational and pre-planning > Experienced in a variety of survey methods; Vantage point, breeding Raptor, walkover surveys, waterbird distribution, breeding Red-throated diver, Hen Harrier roost and breeding Woodcock surveys. > Managing and compiling data > QGIS
Practical skills and aptitudes	> Safe Pass > First Aid Responder > Coilte Environmental Risk Assessment ERA
Interpersonal & Communication Skills	> Good stakeholder engagement > Weekly team updates and reporting
Licenses held	> Cat B.E driver license + Safe loading and cargo securing certification > ISA Advanced Powerboat Certificate plus Category B Commercial Endorsement
Physical/other	> Cillian is a seagoing Helm of the Sligo Bay RNLI search and rescue vessel with responsibility for planning and executing rescue operations at sea, organising training and mentoring crew. > Two years assisting Sligo branch Irish Wetland Bird Survey I-WeBS



CURRICULUM VITAE

Colin is a Graduate Ornithologist with MKO who took up his position in June 2019. Colin graduated with an Honours Degree in Environmental Science from National University of Ireland, Galway in 2019. Colin has a wide range of ecological experience including habitat classification, freshwater surveys and bird surveys. Particularly skilled in ornithology, with his undergraduate thesis focused on wintering populations of common snipe. Colin has over 2 years' experience with multiple GIS software systems, particularly for interpreting ecological data. Colin has gained experience in report writing throughout his undergraduate degree.

Current Role	Graduate Ornithologist
Qualifications	➤ BSc (Hons) Environmental Science, First Class Honors, National University of Ireland, Galway
Years of Experience	➤ 0-1 year
Relevant Experience	➤ Graduate Ornithologist since June 2019. ➤ Planning and carrying out ornithological surveys. ➤ Working independently and effectively in the field. ➤ Reporting of data and GIS mapping
Practical Skills & Aptitudes	➤ Extensive experience in ArcGIS and MapInfo software to produce maps representing ecological data, also proficient in QGIS. ➤ Experience in producing a habitat management plan. ➤ Experience in plant identification including vegetation relevés and quadrat surveys. ➤ Bird identification and ornithological ecology. ➤ Freshwater invertebrate sampling. ➤ Data management. ➤ Proficient in Microsoft Office programs (Word, Excel, PowerPoint).
Interpersonal & Communication Skills	➤ Well versed in presentations, in particular; presented findings of undergraduate thesis to members of staff at National University of Ireland, Galway in 2019. ➤ Works as part of a multi-disciplinary team within MKO. ➤ 6 years previous professional experience dealing closely with clients to a high standard.
Licenses Held	➤ Full clean EU driving license. ➤ Current Safe Pass Holder.



Eoghan Phelan

CURRICULUM VITAE

Current Role	Ornithologist
Qualifications	B.Sc. Environmental Science (ATU) CPD Data analysis (TU Dublin) Postgraduate Diploma GIS (UCC)
Years of experience	3.5 years
Industry Experience	- Working with MKO currently as an Ornithologist since Oct 2022 conducting bird surveys to determine bird species present on site. Surveys conducted includes Vantage point, Hen harrier roost, Red Grouse, Walkover and Waterbird distribution surveys. - Worked with KRC Ecological from May 2021 until October 2022 conducting bird surveys across Ireland. Surveys for specific species such as Curlew, Storm petrel, Leaches petrel, Manx Shearwater, Chough, Golden plover, red grouse and Whinchat. Conducted more general bird surveys of audible and visual detection of bird species within upland and woodland sites in Killarney national park to determine effects of wildfires on bird species. - Volunteering experience includes wintering hen harrier surveys, I-Webs, Daubenton's bat survey and Bird ringing.
Key Strengths & Areas of Expertise	Field Surveys – Ability to conduct field surveys according to the given methodology and to accurately record species allowing for further analysis. Bird identification - Ability to accurately identify bird species. Data Recording – Ability to accurately record species and additional information for further analysis.
Interpersonal & Communication Skills	Strong interpersonal and communication skills with managers to take direction and complete tasks accurately within given time frame and conducting surveys in conjunction with colleagues.
Interests & Hobbies	- Hiking - Swimming 5 a side soccer



Licenses Held

- Full clean Irish Driving License (10yrs)





FINBARR MCGROARTY– BIOPIC

Finbarr is an Environmental Scientist with MKO with over 15 years of experience in both private practice and with government agencies. He holds BSc (Hons) in Environmental Science & Technology and Higher Diploma in GIS. Prior to taking up his position with MKO in April 2025, Finbarr worked as a field scientist with Inland Fisheries Ireland, working on various research projects; specifically, the Introgression/Gene flow project and the Cork harbour project. Finbarr previously worked for the Office of Public Works on various flood relief schemes in the northwest division of drainage and maintenance. Finbarr's key strengths and areas of expertise are in fieldwork, water quality and project management. He has joined the Ecology team in MKO as a field environmental scientist.

Fionn O'Donoghue

Phone 087-757 1829

Email :FionnVideos@gmail.com

PROFILE

Keen Birder and wildlife enthusiast for the last 15 years with 4 years' experience in the field in Wildlife filming, Along with completing many bird surveys professionally. With countless hours spent in the field I have grown a considerable amount of knowledge with my bird ID skills & animal tracking.

Also currently Involved in Several Blue chip Wildlife Productions as a Camera Operator/Assistant & Field Researcher.(See below)

Currently Studying Environmental Science in NUI Galway as a mature student (30) where so far, I'm on a First class Honours Grade point average in the first three years. With one more year of study to complete.

SKILLS

- **GIS** Proficient (QGIS & ArkGis)
- **Ornithological Field surveyor** - 6 hour Vantage point surveys, along with numerous other ornithological surveys e.g. Breeding raptor, woodcock, hen harrier roosts ..etc. All following NatureScot guidelines.
- Camera Operator
- Drone Operator
- Camera/Field Assistance
- Adobe Suite - Photoshop, Premier Pro, After Effects, InDesign, Illustrator.
- Field work experience
- Word & Excel

WORK EXPERIENCE

May - August 2023, – MKO, Student Ornithologist

Surveys & Skills

- 6 Hour Vantage Point Surveys
- Breeding Raptor Surveys
- Woodcock Surveys
- Waterfowl Surveys
- Proficient in GIS, (Qgis & ArkGis) Creating maps reflecting large data samples collected on sights.

JAN 2022 – ONGOING

Camera Operator / Assistant @ *Crossing the line Films*,

Productions Involved in,

- (1) A note for Nature 2022 (RTE) – Production Assistant**
- (2) Ireland's Wild Islands 2023 (RTE) – Camera Assistant** – Wildlife Series on the wildlife wonders of Ireland Atlantic Coast.
- (3) Burren Documentary (Ongoing) – Camera Operator/Assistant** - Upcoming series on the Natural beauty of the Burren in Co.Clare
- (4) Hell for Leather (Ongoing) - Camera Operator/Assitant** - Upcoming series on the Story of Gaelic football

Skill & Duties

- Operating Cameras/filming wildlife/Gaelic: Including Phantom 4k Flex, Black magic Ursa 4.6k(Personal Camera), Sony FX6, Numerous len(s) including Cine -Servo 50-1000mm.
- Drone Operator
- Setting up and down DSLR camera Traps : Tshed 4k Trail camera System,
- Downloading, backing up and organising files on the day of shoots
- General Assistance work, Maintaining Batteries and food supplies.
- Monitoring/Filming Wildlife Den
- Setting up and down Camera rigs

2019-2021

Office Administration / Photographer

Memory Lane School Photography, Cavan, Ireland.

- Receiving and mailing vast amount of orders from printers to schools, ensuring all orders are present before sending.
- Organizing shoots with photographers on where and when their next Photography shoot is taking place.
- Organising my own photography shoots, Keep in contact with school, schedule time and date, set up equipment on arrival, take photos of all pupils in an organized and timely manner.
- Logging all information on Excel to keep office on track.

Wedding Photographer/Videographer

O'Donoghue Photography, Cavan, Ireland.

Second Wedding Photographer/Videographer for Wedding shoots & Photo Booth operator.

- Capturing candid moments of the wedding day.
- Getting a second shot of important moments to give finished video a more Dynamic look.
- Setting up Photo Booth studio and taking fun photos of guests.

JUNE 2017 – 2019

Giant Vancouver, Vancouver BC, Canada

Sales Associate and Bike Mechanic

JAN – JUNE 2017

Office Administration/School Photographer.

Memory Lane School Photography, Cavan, Ireland

Same Tasks As Above (2019-2021)

(Part Time) 2015 – 2016

O'Donoghue Photography, Cavan, Ireland.

Second Wedding Photographer for Wedding shoots/Photo Booth operator.

ACADEMIC HISTORY

2012-2016 Letterkenny Institute of Technology,

- Donegal, Ireland. Degree in Digital Media Design (HONOURS)

2022-2024 (ongoing) University of Galway (UG) / formerly (NUIG)

- **B. A. Environmental Science** (70%) GPA (1ST-3rd Year) – Ongoing

ABOUT ME

Easy going cheerful guy who generally makes friends with everyone I work with. I have a positive and enthusiastic approach to work. In short, I am reliable, trustworthy and hardworking, with an ability to learn fast and love to have some fun along the way.

USEFULL LINKS

YouTube

- My Bluetit Nesting Series that I narrate <https://youtu.be/WdQeaGNwPm0?si=NGSNearjOpUD6KmQ>
- THE DEER OF IRELAND VIDEO: A short "Mini Doc" I made about the deer in Ireland
<https://www.youtube.com/watch?v=ODEq3zEfsrQ&list=PLuuktDAYwiA-XRWHE10aZ0vyYFykYR-zm&index=5>

Instagram

- Red Squirrels - Narrated <https://www.instagram.com/reel/C0M0mknKjWl/?igsh=OHRvMjJoZ3g2Mnox>
- Otters – Narrated <https://www.instagram.com/reel/Cp089P7qTt7/?igsh=bjRleDFsMWNzcTJ6>
- More Otters ! - https://www.instagram.com/reel/Cnu_6ObMikl/?igsh=MWM5bzF3M243YTlmbQ==



John Downes

CURRICULUM VITAE

John Downes is an Ornithologist at MKO. He attended the University of Galway where he completed a BSc (Hons) in Environmental Science. John has experience working with MKO in bird surveying, data management and mapping. He has experience in carrying out bird surveys for a variety of proposed windfarm developments.

Current Role	Ornithologist.
Qualifications	NUIG Environmental Science Graduate, 2.1 grade achieved.
Industry Experience	<2 Years.
Relevant Experience	- Full time employment as a field ornithologist with MKO. - Experience from birding as a hobby. - Microsoft excel and data management. - Trained in bird and habitat ID. - Surveying techniques relevant to bird identification and habitat management.
Key Strengths & Areas of Expertise	- Strong observational skills and a keen aptitude for fieldwork and surveys. - Solo and remote working. - Navigation of rural and remote areas both on foot and driving. - Experienced in habitat mapping and classification. - GIS mapping and data management.
Interpersonal & Communication Skills	- Effective communicator in matters both written and verbal. - Many years of experience working effectively as part of a team. - Experienced in working with the public.
Licenses Held	Full, clean driver's license.





Lee Dark

CURRICULUM VITAE

Lee is an Ornithologist with MKO with over 15 years of experience in the environmental and conservation sector. Lee holds a BA (Hons) in Ecology and a Masters in Conservation Biology. Prior to taking up his position with MKO in September 2017, Lee worked as a researcher and field Ornithologist in the UK. Lee's key strengths and areas of expertise are in project management and conducting ornithological field research. Since joining MKO Lee has been involved as an Ornithologist working on proposed wind farm sites. Within MKO, Lee plays a role alongside members of the Ornithology staff and works as part of a large multi-disciplinary team to produce EIS Reports.

Current Role	Ornithologist
Qualifications	➤ MSc. Conservation Biology - University of Plymouth 2007. ➤ BSc (Hons) Ecology - University of Plymouth 2004.
Years of Experience	➤ Ornithologist, MKO (2017 - present). ➤ Cirl Bunting Reintroduction Researcher RSPB, Cornwall (2016-2017). ➤ RSPB Research Assistant - Breeding Declines of Whinchat (2016). ➤ Researcher - Stirling and Aberdeen University (2013-2015). ➤ RSPB Researcher National Twite Survey - Orkney & Shetland (2013). ➤ Cirl Bunting Reintroduction Researcher, RSPB, Cornwall (2012-2013). ➤ RSPB Senior Research Assistant, Woodland Birds Project (2012). ➤ Cirl Bunting Reintroduction Researcher, RSPB, Cornwall (2011-2012). ➤ RSPB Senior Researcher, Starling Population Declines Wales (2011). ➤ Cirl Bunting Reintroduction Researcher, RSPB, Cornwall (2010-2011). ➤ Research Assistant, RSPB Geltsdale Bird Census (2010).
Relevant Experience	➤ Lissinagroagh Windfarm, County Leitrim (Client: Coillte). ➤ Carran Hill Windfarm, County Leitrim (Client: Coillte). ➤ Tullintowel Windfarm, County Leitrim (Client: Coillte). ➤ Lissmullyduff Windfarm, County Donegal (Client: Coillte). ➤ Coole II Windfarm, County Westmeath (Client: Coillte). ➤ Meenbog II Windfarm, County Donegal ➤ Glenard Windfarm, County Donegal ➤ Carried out Vantage Point Surveys, Hen Harrier Roost Surveys, Breeding and Winter Walkovers, Wildfowl Surveys and Breeding Raptor Surveys at these sites. Staff training and VP reconnaissance surveys.
Key Strengths & Areas of Expertise	➤ Ecological Clerk of Works. ➤ Nest finding and locating breeding territories ➤ Habitat surveys (terrestrial and aquatic). ➤ Mammal Surveys (Fox Transects, Bat, Badger, Otter). ➤ Core Pro Tablet & GIS Mapping.
Licences Held	➤ Full driver's license ➤ Ringing experience.



CURRICULUM VITAE

Megan Doyle

Megan Doyle is an Ecologist with MKO having joined the company in June of 2023. Megan holds a BSc (Hons) Wildlife Biology degree from Munster Technological University Tralee in County Kerry, Ireland, where she focused her studies on conservation and habitat management. Megan's key strengths and expertise are forestry operations carried out in Ireland, data management, and desk studies. Since joining MKO, Megan has been involved in a range of forestry projects. In her role as an ecologist, Megan works with a team which includes members from MKO's Ecological department in the preparation and production of Appropriate Assessment Screening Reports and Natura Impact Statements for applications for felling, reforestation, thinning, and forest road licenses for Coillte, in line with the template required by the Forest Service.

Current Role	Graduate Ecologist
Qualifications	> Awarded (2.1) Level 8 Bachelor of Science (Honours) in Wildlife Biology from Munster Technological University Tralee > Awarded a Diploma (Distinction) in Animal Science (QQI Level 5) from Killester College of Further Education (2015 - 2016)
Years of Experience	> 4 years of fieldwork and report writing experience with Munster Technological University > 6 months experience as an Ecologist with Envirico Ltd. consultants Tralee, county Kerry (work included desk based scientific report writing and a wide variety of fieldwork for several projects) > <1 years' experience AA report writing Coillte forestry reports with MKO
Relevant Experience	> Preparation and production of Appropriate Assessment Screening Reports and Natura Impact Statements for applications for felling, reforestation, thinning, and forest road licenses. > Excellent ecological field skills, experienced in the undertaking of impact assessments, evaluating scope, habitat and species identification, conducting project research, in-field surveys, data analysis and scientific report writing. > Examples of projects delivered/ worked on are: • NPWS Natterjack Toad Project (Duties included habitat assessment, flora and invertebrate species identification, mapping, data analysis, report writing, providing induction training and supervision of work experience students, and in person communication with farmers on the Natterjack Toad Rural Pond Scheme) • Otter and bat Surveys • Coniferous Forestry Surveys • Invasive Species Surveys (Eg. Japanese Knotweed, Rhododendron) • Manx Shearwater & Storm Petrel monitoring on offshore islands, specifically the Basket Islands including rat survey work
Practical Skills & Aptitudes	> Habitat and Species Identification and Surveying > QGIS mapping and research > Report writing (AA, EIA and EcIA etc.)
Interpersonal & Communication Skills	> Excellent communication skills and presentation experience > Team player



MKO, Tuam Road, Galway, Ireland. H91 VW84

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Licenses Held

- Current holder of a provisional license and access to own vehicle, awaiting test date for driving test





CURRICULUM VITAE

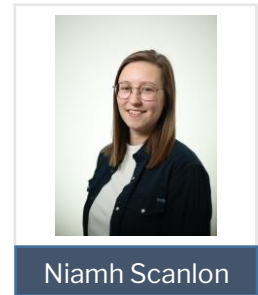


Niall McHugh

Current role	Ornithologist
Qualifications	➤ BSc (Hons) Applied Freshwater and Marine Biology, First Class Honours, Galway – Mayo Institute of Technology
Memberships	➤ British Trust for Ornithology (BTO) ➤ RSPB ➤ Botanical Society of Britain and Ireland (BSBI) ➤ Mountaineering Ireland
Years of experience	➤ 6 years
Relevant experience	➤ Extensive bird surveying experience – primarily using SNH and associated methodologies for proposed windfarm developments. Field experience includes wildfowl surveys, walkover surveys, breeding raptor surveys, vantage point surveys, red grouse surveys. ➤ IWeBS surveys ➤ Actively carrying out BTO monitoring surveys in Northern Ireland – breeding birds (terrestrial and wetland), seabird monitoring ➤ Arctic surveys (seabirds, benthic, zooplankton) ➤ QGIS competency ➤ Report writing
Key strengths and areas of expertise	➤ Applied experience conducting hen harrier surveys in upland environments. A key part of my role involves actively searching for signs of breeding of this protected species and monitoring confirmed nests. I have been involved in numerous projects where hen harriers were present and this has made me competent in identifying breeding areas. ➤ Ornithology surveys ➤ Highly experienced in outdoor and survey work in all atmospheric conditions. ➤ Navigation and upland survival ➤ The carrying out of extensive surveys consistently and contributing to the contents of reports has made me acutely aware of the potential effects large scale developments may have on the environment and on flora and fauna, and of mitigation, restoration and rehabilitation measures.
Practical skills and aptitudes	➤ Bird identification and informed knowledge of their ecology and habitat preference ➤ Habitat and botanical surveys, including vegetation relevés and quadrat sampling ➤ Bat surveys ➤ Terrestrial mammal surveys, including badger and red squirrel surveys ➤ Aquatic sampling (kick sampling, SSRS) ➤ I.T. skills i.e. competent in the use of Word, Excel, QGIS ➤ Cetacean identification ➤ Passionate about everything in the natural world and a thirst for knowledge



Interpersonal & Communication Skills	➤ Experience in communicating with landowners and with members of the public for the allowance of site access and conflict resolution ➤ Team-working skills and experience in working as part of a multi-disciplinary team with many moving parts and deadlines ➤ High attention to detail ➤ Highly motivated and eager to learn
Licenses held	➤ Full EU driver's license ➤ Safe Pass ➤ NPWS licenses (Breeding barn owl, red grouse)
Physical/other	➤ Almost two decades of experience in observing birds and the natural world as a passionate hobby ➤ Highly experienced in being outdoors ➤ Hiking / mountaineering, kayaking, kitesurfing, wild camping



CURRICULUM VITAE

Current role	Field Ornithologist
Qualifications	➤ B.Sc. (Hons) in Field Biology and Wildlife Tourism (2020), Second Class Honors, Institute of Technology, Tralee.
Memberships	➤ Bird Watch Ireland
Years of experience	➤ 3 years
Relevant experience	➤ Experience using the SNH guidelines for ornithological surveys such as vantage point surveys, waterbird surveys, breeding/ wintering walkover surveys, hen harrier roost surveys, breeding raptor, red grouse, and woodcock surveys. These surveys are carried out on pre-construction and operational windfarms across the Northwest of Ireland. ➤ Report writing (Interim and end of season). ➤ Analyzing data collected from the field. ➤ Attending training courses online carried out by BTO.
Practical skills and aptitudes	➤ Bird ecology and identification. ➤ Proficient in various software programs including QGIS and ArcGIS. ➤ Good data input and management skills. ➤ Experience in habitat mapping techniques using Fossits guide. ➤ Good mammal, vegetation, and tree identification skills.
Interpersonal & Communication Skills	➤ Strong interpersonal communication and written skills gained throughout my college years allow me to produce scientific reports and communicate well with lecturers and peers. ➤ I am highly motivated and can take direction and advice from senior staff to reach deadlines and goals.
Licenses held	➤ Full clean Irish driving license for 10 years. ➤ Safe Pass ➤ Manual Handling Course. ➤ Coillte ERA Training. ➤ Remote Emergency Care – REC3 certified. ➤ Previously I held a red grouse tape and lure license. ➤ Gun License.

ROBERT VAUGHAN

BIRD SURVEYOR,
WILDLIFE ARTIST & ILLUSTRATOR

CONTACT

Apartment No. 2
Quayside Apartments
Shore Road, Ramelton
Co. Donegal - Ireland

WEB SITE

robertvaughanillustrations.com

E-MAIL

robertvaug@gmail.com

PHONE NUMBER

086 0676310

OVERVIEW

I am currently working as a freelance Bird Surveyor and have been since 2018. In 2020 I completed the ESAS Seabird Training Course. Before that I had undertaken breeding Buzzard, Sparrowhawk and Merlin surveys for the Irish Raptor Study Group.

I have a lifetime passion for wildlife, especially birds. Travelling widely, I have gained experience and knowledge while volunteering for migration counts in North America and Asia, focussing largely on birds of prey.

I also work as a freelance wildlife artist and illustrator, with a personal interest in behaviour and identification.

KEY SKILLS

- Excellent knowledge of Irish birds from over 25 years enjoying, studying and sketching in the field.
- Excellent time management and self motivation after many years working for myself.
- Proficient in a range of programmes for recording field work data and maps in clear and precise formats.
- Flexibility, able adapt to regularly changing surveying and working conditions.

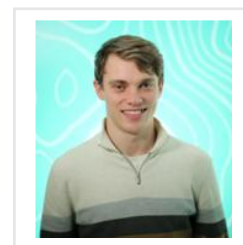
EXPERIENCE

- 4 years surveying upland and coastal habitats for population, disturbance and behaviour.
- ESAS qualified seabird surveyor.
- National Ring Ouzel Survey fieldworker 2021.
- Iwebs counter at several locations.
- Volunteer warden covering Kilcoole and Baltray Little Tern colonies.

References are available on request.



CURRICULUM VITAE



Shawn Dowdall

Shawn is a Project Ornithologist with experience delivering ornithological surveys and assessments for renewable energy and infrastructure projects throughout Ireland. He has particular experience within raised bog , cutover peatland and agricultural habitats, undertaking multi-season survey programmes for breeding, wintering and migratory bird populations. Shawn is experienced in the design and delivery of wind farm ornithology surveys in accordance with current industry guidance, including NatureScot (2025), and has undertaken extensive vantage point, breeding wader, breeding raptor, waterbird distribution and abundance, wintering golden plover and hen harrier roost surveys. His work has focused on assessing the use of peatland habitats by breeding raptors, breeding and wintering waders, wintering waterfowl and other species of conservation concern. Shawn regularly contributes to ornithological assessments for renewable energy developments as well as authoring and reviewing technical reports.

Current role	> Project Ornithologist	
Qualifications	> MSc Biodiversity and Conservation Trinity College Dublin, 2022 Distinction	> BSc Environmental Biology University College Dublin, 2021 First Class Honours
Memberships	> Qualifying Member of the Chartered Institute of Ecology and Environmental Management (CIEEM)	
Years of experience	> MKO January 2024 - Present	
Practical Skills and Aptitudes	> Wind and Solar Farm Pre-Planning Surveys Shawn has extensive experience delivering ornithological surveys for wind and solar developments, including projects located within raised bog and cutover peatland landscapes. Working in accordance with current guidance, including NatureScot (2025), he has undertaken waterbird distribution and abundance surveys following I-WeBS methodologies, targeting wintering and migratory waterbirds including waders, geese, swans, ducks and gulls. He has also undertaken wintering golden plover surveys in areas supporting significant populations of the species and extensive hen harrier roost surveys within peatland landscapes. This work has involved identifying important feeding, roosting and commuting habitats, assessing flight behaviour and habitat use, and informing renewable energy assessments and mitigation measures. > Survey Design, Data Analysis and Reporting Shawn has experience designing and managing ornithological survey programmes for renewable energy developments in accordance with current guidance. He is proficient in GIS and Excel and regularly analyses ornithological datasets to assess flight activity, habitat use and species distribution. He has undertaken viewshed analyses, collision risk modelling Shawn also regularly authors and reviews technical reports including interim, end-of-season and contributes towards EIAR ornithology inputs.	
Interpersonal & Communication Skills	> Project manager for a number of wind farm projects, responsible for coordinating ornithological survey programmes, liaising with landowners, site managers, contractors, clients and other project stakeholders. > Supervises and coordinates a survey team within MKO's Ornithology Team, providing guidance on survey methodologies, data collection and health and safety requirements.	

CURRICULUM VITAE 2023

Summary

My most recent position is working as a contract bird surveyor (April 2017-May 2023) monitoring wind farm sites. I have also worked and as a Marine mammal observer (August 2019) for marine dredging and drilling projects e.g., in Doolin, Loughs Foyle & Swilly. Bird and marine mammal survey for Aqualicense Ltd (2019) for a salmon farm.

Prior to that, I worked as a Fisheries Assistant with Inland Fisheries Ireland (December-August 2018). I was ageing bass scales, updating databases, assisting WFD estuary fish surveys, electro-fishing and designed a brochure for good handling of elasmobranchs.

From April 2016-2023 I worked as a contract Ornithologist doing wind farm bird surveys in Donegal, Leitrim, Sligo, Mayo, Offaly, Kildare and Galway for McCarthy Keville O'Sullivan Planning Consultants. I have also worked as an MMO for Aquafact, IWDG, NPWS, Roadbridge, Atlantic Towage and Irish Drilling. My previous contracts include;

- Fisheries Technician - review and report on "*Salmon policy in other jurisdictions*" and compiling salmon stock data for Inland Fisheries Ireland (August-December 2017).
- Marine Mammal Observer (MMO) for Roadbridge on the Belmullet Sewerage Scheme (July 2017). On site.
- Wind farm bird surveys in Mayo, Sligo, Donegal, Kildare, Leitrim for McCarthy Keville O'Sullivan Environmental consultants. MKO Ireland. (April-July 2017-2023).
- MMO for Aquafact for harbour dredging at Rosslare Europort, County Wexford (Dec 2016). Environmental compliance.
- In October 2016 I was MMO for Geo-mara on a new marina project involving confined underwater blasting, dredging and dumping at sea in Rossaveal, Galway. environmental compliance. On site.
- Ornithologist monitoring Sand Martins for Aquafact on Aquacomms Transatlantic Fibre Optic cable landfall in Killala, County Mayo (August 2015).
- ICCAT Blue fin tuna Fishery Observer in the Mediterranean (June 2015) for MRAG Ltd (UK).
- Marine mammal observer (MMO) for Aquafact environmental consultants on a new ferry pier involving build underwater blasting and dredging in Doolin, County Clare (2014-15). environmental compliance and mitigation. On site.

As an ecologist I have experience surveying birds, fish, raptors, marine mammals and bats and worked in aquaculture, coastal construction projects, renewable energy (wind farms) and the fisheries sector in Ireland. I have professional experience as a falconer, photojournalist, videographer. I have several months experience at sea as a Marine mammal observer (MMO) for the Marine Institute, National Parks and Wildlife Service and Irish Whale and Dolphin Group on fisheries surveys and marine mammal surveys. I graduated with a BSc Honours (2.1) in Freshwater and Marine Biology from GMIT in 2012. My research thesis was on the Diet of Herring (*Clupea harengus*) and Sprat (*Sprattus sprattus*) in the Celtic Sea.

Personal information

Date of Birth: 8th January 1957

Nationality: Irish

Address Claggan, Kilmeena, Westport, Co. Mayo, Ireland.

Phone: +353 83 4658374

Email: shayfennelly@gmail.com

Clean driving license 2000-2022

Qualifications

Digital Media production – Web Video, DIT 2013

BSc (Honours 2.1) in Freshwater and Marine Biology, GMIT 2012.

Certificate in Video Production 2004

Certificate in Fish Farming Letterkenny IT 1983

National Union of Journalists membership number 0902536

Courses/Certificates

Safe Pass for working on construction sites renewed 2021-2025

Introduction to ArcGisPro| Esri Ireland| March 2018.

VHF Radio Course September 2016

UAVs for Environmental Sciences | Scottish Marine Biological Association| 2015

ICCAT Blue fin tuna Regional Observer Program for Fishery Observer (MRAG)|2015

Passive Acoustic Technology, University of California | 2014 (www.biowaves.net)

Passive Acoustic Monitoring (PAM) Training cert: 000178 (IntelligentOcean) | 2011

BIM Personal Sea survival Techniques Certificate | 2011

National Powerboat/RIB Level 2 Certificate | 2011

EURO/Universal or BOSIET, HUET with OLF | 2009-2013

Seafarer Medical Certificate (ENG11) | 2010

STCW-95 Safety Training and Elementary First Aid (BIM) | 2007

Marine Mammal Observer Training Course (IWDG/JNCC) | 2007

Sea going & Marine Mammal Observer (MMO) Experience

- 2016-2019 Skipper of a Marine Survey Office Licensed passenger vessel/safety boat operating in Clew Bay, Mayo
- 2015 May ICCAT Blue fin tuna Fishery Observer, Balearic Islands, Mediterranean
- 2014 April-2015 April MMO for new pier build at Doolin, Co. Clare, Ireland
- 2011 MMO on Blue whiting acoustic survey for Marine Institute, Ireland.
- Fennelly S, (2011) Cetacean Distribution and Relative Abundance Survey during FSS Blue Whiting Survey 2011. Report to the Marine Institute, Oranmore, Galway, Ireland.
- 2011 MMO for Irish Whale and Dolphin Group (IWDG) for EIS for marine hydro power project in Ireland. Dr Simon Berrow, (IWDG)
- 2010 MMO/IWDG on cetacean survey, North West coast Ireland, for the National Parks and Wildlife Service.
- 2008 Twelve-month effort watch at Downpatrick head, Co Mayo for the IWDG.
- 2007 Observer on a week geophysics research cruise-WESTLINE to the Rockall Trough, off Ireland on Ireland's research vessel, the Celtic Explorer

- 2003 Journalist writing on marine enterprise based in Petty Harbor and Fogo Island, St. John's in Newfoundland, Canada.
- 1995 Mate – on Tuna fishing trawler, Skipper Alan Glanville Dunmore East to Bermeo, Spain, Bay of Biscay.
- 1994-1998 Established ecotourism business otter watching in Clew Bay, Mayo.
- 1993 Co-ordinated the first whale and dolphin survey in Ireland, Co Mayo with the Irish Whale and Dolphin Group and Dr Jonathan Gordon/IFAW.
- 1989 Photographer on the Whitbread Race, Montevideo, Uruguay.
- 1987 Photographer/Video cameraman on a 3 month sailing trip from Ireland to St Petersburg.
- 1982 Cetacean observer on UK MAFF herring survey cruise for the National Board for Science and Technology (Ireland).
- 1980 Observer on a 2-week cetacean/seabird survey of Ireland's west coast from Westport to Plymouth, with Dr Peter Evans, UK.

Education

Digital Media Production-Web Video Digital Skills Academy/DIT 2012-2013

BSc (Hons) Freshwater & Marine Biology GMIT Galway 2008-2012

BSc Marine Science Yr1 National University of Galway 2007-2008

Project Management Course FORBAIRT Dublin 1992

Business Appraisal Course FAS. Dublin 1992

Letterkenny Institute of Technology Certificate in Fish Farming 1982-1983

Diploma in Applied Biology Dublin Institute of Technology (DIT) 1977-1979

Projects

- 2016-2019 I set up a marine passenger boat ecotour/angling small business called *Wild Atlantic Charters* in Clew Bay County Mayo.
- Baseline whale and dolphin surveys, marine mammal observer.
- I have documented aquaculture, fishing and coastal communities in photojournalist assignments in Ireland, the Shetland Islands UK, Malta, Europe, Newfoundland Canada, Tanzania Africa, Uruguay South America, Hong Kong China, Virgin Islands USA. My photojournalism from 2000-2012 has focused on aquaculture, coastal zone management, marine ecotourism, offshore exploration, air sea rescue, oil pollution, traditional sailing craft and the decline of salmon, bluefin tuna, whales and dolphins.
- Marine ecotourism projects, *Island Otterwatch*, whaling/island visitor centre in Mayo.
- As a member of the Irish Whale and Dolphin Group in 1993 I coordinated the first whale and dolphin survey in Ireland off Co. Mayo. As a Director of the IWDG I helped to establish it as Ireland's leading marine NGO. (www.iwdg.ie)
- I set up Aquaphoto, a marine photolibrary to complement my work as a freelance photojournalist 1990-2014. www.aquaphoto.ie

Awards

In 1995 I was awarded an Environmental Endeavour Award from the Electricity Supply Board, Calouste Gulbenkian Foundation and Conservation Volunteers Ireland for Island Otterwatch - showing people how to watch coastal otters, and for protecting and improving Ireland's environment.

In 2001 I received a national print award for a story in the Irish Times on how the Shetland Islanders benefited from the discovery of North Sea Oil and what Mayo could learn from this, in the context of a new gas field found off Ireland's coast.

Employment

Date	Employer	Position
2023	McCarthy Keville O'Sullivan Irish Drilling Ltd.	Ornithologist Marine mammal Observer (MMO) Lough Foyle & Swilly MMO
2018	Atlantic Towage Ltd. Inland Fisheries Ireland & McCarthy Keville O'Sullivan	Fisheries Assistant & Ornithologist
2017 August- July	Inland Fisheries Ireland Roadbridge	Fisheries Technician MMO Belmullet Sewerage Scheme
April-July	McCarthy Keville O'Sullivan Aquafact	Ornithologist windfarm bird surveys Drone photography
2016	Aquafact	MMO Rosslare Europort Dredging
2015	MRAG Ltd.	Blue Fin tuna Fishery Observer
2014-2015	Aquafact, Galway	Marine mammal observer, Doolin pier construction, Co. Clare.
1990-2014	Aquaphoto Library (Stock Photography)	Freelance Photographer/journalist
Oct. 2007	Invited Writer to the Hong Kong Baptist University, International Writers Workshop with the theme "Writing the Sea and the Waterfront," one month in Hong Kong and China	
2003-2007	Aquaphoto	Freelance Photographer/Journalist
Oct. 2003	Freelance Journalist Newfoundland	Marine enterprise research,
1994-1998	Island Otterwatch Clew Bay, Co. Mayo.	Nature Guide for otter watching, Self-employed
1995	Alan Glanville	Mate -Tuna Fishing boat
1993	International Fund for Animal Welfare	Project Co-ordinator Mayo Whale and Dolphin Survey
1992	FAS, Dublin	Business Appraisal Course
Developed Project Proposal for an Ocean Education Visitor Centre, Blacksod Bay, Mayo		
1991-1992	Island Trust NGO Milltown, Dublin	Editor, An t-Oileanach Island's development newsletter,
Island Trust submission for offshore islands LEADER 1 (EU development funding program) to Department of Agriculture.		
1988-1989	WHITBREAD Round World Race Freelance Marine Photographer, Uruguay, Argentina.	

1987	South Kerry Sailing Caherdaniel,	Photographer for book published by Collins "Sailing to Leningrad" Roger Foxall.
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Video Cameraman for Ulster Television/Channel Four TV Program, "40 Degrees East," based on a 3 month sailing trip on a 6 metre yacht from Kerry to Russia on a circumnavigation of the Baltic Sea and then Soviet Union states.

Date	Employer	Position
1986		Photojournalist
1986	Eamonn de Buitlear, Bray, Co. Wicklow.	Wildlife filming assistant Otters in Clew Bay
1986	Clew Bay Oyster Co-op Westport, Co. Mayo.	Oyster Stocks Survey
1985	Salmon Research Trust Newport, Co. Mayo	Salmon smolt husbandry
1986-1983	Island Seafarms Blackshell Mussel Farm	Mussel Farming
1986-1983	Clew Bay Oyster Co-op. Westport, Co. Mayo.	Oyster Fisherman
	MAFF Fisheries Cruise MMO National Board for Science & Technology, Dublin	Observer on herring survey
1980-1979	Dr Peter Evans Oxford University	MMO Observer on Cetacean/ Seabird Cruise off the West of Ireland
1978-1976	Forest & Wildlife Service NPWS Research Branch	Wildlife research assistant Ornithologist & Falconer on bat, Peregrine falcon, merlin & seal Surveys.

Publications

Gordon J., Berrow S., Rogan E., Fennelly S., (2000), Acoustic Whale and Dolphin Survey off the Mullet Peninsula, Co. Mayo. Irish Naturalist's Journal. 26(7/8) 251-259.)

Conor Ryan, Simon Berrow, Alessandro Pierini, Joanne O'Brien, Ian O'Connor and David McGrath (2010) Inshore Boat-based Surveys for Cetaceans. Report to the National Parks and Wildlife Service. IWDG. pp.33. Primary logger on NW Cetacean survey.

Various feature stories on the marine environment, on developing Ireland's aquaculture

industry, in Fish Farming International; on Ireland's fishing industry in the Irish Skipper, the Marine Times and Fishing News newspapers; and various stories on environmental matters in national newspapers and magazines in Ireland and the UK.

- (2015) Clew Bay seaweed cutters set up association Mayo News Jan.
- (2013) Harbour Porpoises under threat from seismic survey in Killiney Bay
- (2010) Turbot farm gears up for market launch Intrafish Oct 2010
- (2010) The job: virus hunter photo Financial Times 5 September 2010
- (2010) Cruinnu na mBad brings a new cargo of tourism Afloat Nov 2010
- (2009) Protest continues as Corrib offshore gas pipeline is laid August Inshore Ireland
- (2009) Government abandons model ICZM approach Inshore Ireland Feb 2009
- (2008) Leachate: a risk or not? Inshore Ireland Feb 2008
- (2008) Islands await firefighting report Inshore Ireland 2008
- (2007) Incentives needed to reverse Islands population Inshore Ireland Dec 2007
- (2007) Problems of offshore islands outlined Inshore Ireland Dec 2007
- (2007) Shellfish farmers oppose leachate discharge in Clew Bay Inshore Ireland April
- (2007) Concerns over effluent discharge pipe in Broadhaven Bay SAC Inshore Ireland March
- (2007) Sound pollution threatens whales off Ireland Inshore Ireland March
- (2007) Authorities approve emergency leachate release into designated shellfish waters Inshore Ireland March 2007
- (2007) Council seek permission to dispose leachate in Clew Bay Inshore Ireland
- (2007) Clare Island Pioneering organic salmon farming Inshore Ireland Oct 07
- (2007) Ireland's environmental stewardship awarded red light status Inshore Ireland July
- (2007) Shellfish farmers voice concerns over threat to Clew Bay
- (2006) Government to review oil and gas licensing terms Inshore Ireland Dec 2006
- (2006) No postmortem for Sperm whale Inshore Ireland 2006
- (2006) Corrib Gas: consent before consultation? Inshore Ireland April 2006
- (2006) The decline of Irish Drift netting Fishing News 8 Sept 06
- (2006) Salmon season ends-maybe for good Fishing News August 06
- (2006) Marine wildlife neglected as offshore drilling continues An Taisce magazine
- (2006) Classification regime heads up gigas oyster workshop Inshore Ireland July
- (2006) SEA Public consultation fails but licensing recommended Inshore Ireland
- (2006) Substantial safety margin provided recommendations are followed Inshore Ireland April 2006
- (2006) Spring oyster harvest in Blacksod Bay Inshore Ireland April 2006
- (2006) Irish system proving its worth Fish Farming International May 2006
- (2006) Ireland neglects its marine biodiversity Inshore Ireland Feb 2006
- (2006) Danger in Irish waters 05-11/1/06 Village magazine Jan 06
- (2005) Tanzania invests in new marine institute Fish Farming International Oct 05
- (2005) Net Loss BBC Wildlife magazine UK September05
- (2005) Endangered giant turtle drowned in Clew Bay Village magazine August05
- (2005) New Crabber for Ireland Fishing News UK July05
- (2005) Aine Patricia new crabber joins mayo fleet Fishing News UK July05
- (2005) New Crab Fishing Vessel for Mayo fisherman Marine Times July 05
- (2005) Fishing vessel set adrift wrecked in Clew Bay Marine Times May05
- (2005) New Sea Urchin farming system at ISA conference Marine Times May05
- (2005) Urchin system launched at Irish meeting Fish Farming International April 05
- (2005) Garda investigate Old Head boat vandalism Mayo News April05
- (2005) Gama employees march for better pay - photo Village magazine April05
- (2005) Tsunami aid gets through Fish News International UK March05
- (2005) John Roche gunned down in Kilmainham-photo The Star March05
- (2005) Budget Brian Cowen- photo Accountancy Ireland Feb05
- (2005) Seafood producer's oppose Council's leachate disposal Marine Times Jan05
- (2004) Corrib gas gets planning approval Marine Times Dec04
- (2004) Mussel growers face huge waste bill Fish Farming International Dec04
- (2004) Galway bay tragedy stuns fishing community Marine Times Oct04
- (2004) Government undermines consensus ICZM in Bantry MarineTimes Oct.04

- (2004) EU Commission pursues legal action against government Marine Times
- (2004) Shellfish industry goes from strength to strength Marine Times April 2004
- (2004) Aquaculture big business in Canada Fish Farming International May04
- (2004) Oil spill in Connemara Marine Times April 2004
- (2004) Fogo Island Fishing Co-operative Marine Times March 2004
- (2004) Gone but not forgotten Newfoundland's Irish Ireland of the Welcomes March
- (2004) Marine Ecotourism whalewatching in Newfoundland Marine Times Jan. 2004
- (2004) Irish Air Corps cannot meet the standard Marine Times Feb. 2004
- (2003) Tagging giants Bluefin off Donegal, Irish Independent Magazine, 11/10/2003
- (2003) Lessons from the Coast of Death, Irish Independent Magazine, 26/4/2003
- (2003) Spill could pass Å1.1billion, Fish Farming International, April 2003
- (2003) Mystery Seabird Deaths in Wexford, Marine Times, May 2003
- (2003) Sceilig's splinter of stone, Ireland of the Welcomes, Jan-Feb.2003
- (2002) Erris fishermen withdraw from monitoring group, The Irish Skipper, Oct.
- (2002) Effluent outfall must move, fishermen, The Irish Skipper, July 2002
- (2002) Consultation confused with participation? Fish Farming International, May
- (2002) A pale green light for Corrib, The Irish Skipper, May 2002
- (2002) Integrated approach to development in Clew Bay, The Irish Skipper, April
- (2002) Irish oysters caused Hong Kong illness, Irish Times, 15/3/2002
- (2002) The Mullet peninsula- at the mouth of the sea, Ireland of the Welcomes Jan.
- (2001) Mayo looks to the Shetland-Corrib Gas Field, Irish Times, 21/7/2001.
- Awarded John Healy National Print Journalism Award in 2001 for Corrib gas IT story
- (2001) Mayo fishermen concerned over Corrib Gas, The Irish Skipper, June 2001.
- (2001) Whale of a Time, Irish Independent Magazine, 23/7/2001.
- (2001) Bluefin Tuna Fishery Blossoms off Ireland, Fishing News, 30/3/2001.
- (2001) Yawl come back to Achill! (Achill yawls), Ireland of the Welcomes, Jan/Feb
- (2000) Shores of Distress, (marine tragedy) Irish Independent Magazine 4/11/2000.
- (2000) When is an island not an island? The Mayo News, 3/11/1999.
- (2000) The Hunt for Salmon (drift-netting at sea) Fishing News, 6/10/2000.
- (2000) Day of the Dolphin, Irish Independent Magazine, 9/9/2000.
- (2000) The crude cost of neglect on our coastline, Irish Examiner 13/7/2000.
- (2000) Atlantic Patrol aboard C252, The Mayo News, 31/5/2000.
- (1999) Clew Bay- what does it mean to you? The Mayo News, 7/7/1999.
- (1998) Government ignores Strategic Environmental Assessment, Western People 15/7
- (1995) Question over long term safety of sheep dips, The Mayo News, 14/6//1995.
- (1987) Eastward Ho! first Irish yacht to Leningrad since Russian revolution.



Tom Ryan

CURRICULUM VITAE

Tom Ryan is a Project Ornithologist with MKO with extensive practical experience in field research. Tom holds a BSc (Hons) in Environmental & Natural Resource Management and is currently working towards a master's in Environmental Management with GIS. Prior to taking up his position with MKO in September 2016, Tom worked as part of the Wildlife Unit of the Department of Agriculture as part of his degree. Tom has taken part in voluntary bird surveys as well as ongoing recording of mammal species. Tom's key strengths and areas of expertise are in bird ecology & identification, GIS, project planning, mammal ecology & identification and fieldwork skills. Since joining MKO Tom has been involved as an Ornithologist on over 20 wind energy developments, utilising a broad range of bird survey methodologies including breeding raptor, adapted brown & shepherd and waterfowl distribution surveys. He is very skilled at detecting Annex 1 and red listed bird species in a broad range of habitats. Within MKO Tom plays an important role as part of the Ornithology team, working independently, managing several projects and planning field surveys in accordance with required standards. Tom has managed the ornithological surveying at wind energy developments, engaging with and reporting to clients as well as liaising with sub-contractors and management.

Current Role	Project Ornithologist
Qualifications	➤ B.Sc. (Hons) Environmental & Natural Resource Management (2016). ➤ 2019 - Ongoing. PgDip/MSc, Environmental Management with Geographic Information Systems (GIS), Ulster University.
Years of Experience	➤ 2016 - Present, Ornithologist MKO. ➤ Experienced and proficient in a broad range of bird survey techniques across many proposed developments. Previous professional experience in field research work and voluntary bird surveying. Previous research experience involving terrestrial mammal species as part of third level degree.
Relevant Experience	Dissertation 2014 - 2016 ➤ Seasonal dietary analysis of the pine marten (<i>Martes martes</i>). ➤ Extensive sample collection and fieldwork. ➤ GIS mapping. ➤ Statistical analysis. Department of Agriculture Food and the Marine - Wildlife Unit (2015) ➤ Student Work Placement - Badger Vaccination Programme. ➤ Worked in the field as part of the badger vaccination team. ➤ TB eradication process training following strict standard operating procedures. ➤ Used maps for locating badger setts. ➤ Surveying badger setts and ranking in terms of activity levels. ➤ Observation of treatment of badgers by veterinary team. ➤ Regional veterinary laboratory observing disease inspection procedures. Relevant Surveys for MKO: ➤ Lismullyduff Wind Farm, County Donegal (Client: Enerco): Carried out Hen Harrier nest area surveys and breeding raptor surveys. ➤ Shannon/Fergus Estuary Bird Usage Survey, County Clare/Kerry (Client: Clare County Council): Carried out wildfowl surveys. ➤ Violethill Windfarm, County Clare (Client: Coillte): Carried out vantage point surveys, breeding raptor surveys, breeding walkovers, winter walkovers, hen harrier roost surveys. ➤ Carrownagowan Windfarm, County Clare (Client: Coillte):





	Carried out Vantage point surveys, waterfowl surveys, breeding walkovers, winter walkovers, hen harrier roost surveys and breeding raptor surveys for this site. > Glenard Windfarm, County Donegal (Client: Coillte): - Carried out Vantage point surveys and waterfowl surveys for this site. > Meenbog Windfarm, County Donegal (Client: Enerco): Carried out pre commencement bird surveys, vantage point and winter walkover surveys for this site. > Lettergull Windfarm, County Donegal: - Carried out Vantage point surveys, waterfowl surveys and winter walkovers for this site. > Kilcummin, County Offaly > Lackeragh, County Clare > Sharragh, County Tipperary > Derrinlough, County Offaly
IN	> Working Independently and effectively in the field. > Planning surveys with sub-contractors and management. > Data presentation. > End of season reporting. > Mapping. (MapInfo, QGIS) > Adhering to required guidelines and SOP's on bird survey methodologies.
Management/ Supervision	> Managing a team of Ornithologists. > Management of all bird surveys carried out on site. > Planning, management and resourcing of surveys on assigned sites. > Mentoring and support of junior staff. > Site recce visits. > Demonstrated ability to manage workload and plan surveys based on own initiative.
Interpersonal & Communication Skills	> Reporting to client on surveys underway/ observations of interest > Communication with ecology team in planning of bird survey work. > Effective and clear communicator. > Proven ability to manage extensive survey requirements and collation of data upon completion. > Planning surveys with team members and sub-contractors.
Licenses Held	> Full Clean Driving Licence. > Safe Pass. > Site specific barn owl Licences, NPWS.
Physical / Other	> Ability to plan and organize fieldwork in line with published survey methodologies and company SOP's.

