

Appendix 7-2 – Survey Effort

PRICEINED: PAPOSIONS

Carrig Renewables Wind
Farm

Lipperary Planning Authority Farm



Table of Contents

	Table of Contents	PRICEINED. 25
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Table 1 Vantage Point Survey Effort	700
	Table 2 Breeding Walkover Survey Effort	25
	Table 3 Breeding Raptor Survey Effort	
	Table 4 Breeding Woodcock Survey Effort	
	Table 5 Breeding Barn Owl Survey Effort	
	Table 6 Winter Walkover Survey Effort	
	Table 7 Waterbird Distribution Survey Effort	
	Table 8 Hen Harrier Roost Survey Effort	
Libber	ary Planning Authority. In	



Table 1 Vantage Point Survey Effort

l able 1 Vantage	Point Survey Effort					
Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/10/2020	Vantage Point Survey	VP3	3:00 starting at 13:10	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	· 500	CMcK
13/10/2020	Vantage Point Survey	VP3	3:00 starting at 16:40	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	20	CMcK
14/10/2020	Vantage Point Survey	VP1	1:00 starting at 13:10	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
14/10/2020	Vantage Point Survey	VP1	1:00 starting at 14:10	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
14/10/2020	Vantage Point Survey	VP1	1:00 starting at 15:10	Visibility: good; Wind speed and direction: light breeze NF; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
14/10/2020	Vantage Point Survey	VP1	1:00 starting at 16:40	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
14/10/2020	Vantage Point Survey	VP1	1:00 starting at 17:40	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
14/10/2020	Vantage Point Survey	VP1	1:00 starting at 18:40	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
15/10/2020	Vantage Point Survey	VP2	1:00 starting at 12:55	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
15/10/2020	Vantage Point Survey	VP2	1:00 starting at 13:55	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
15/10/2020	Vantage Point Survey	VP2	1:00 starting at 14:55	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
15/10/2020	Vantage Point Survey	VP2	1:00 starting at 16:25	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
15/10/2020	Vantage Point Survey	VP2	1:00 starting at 17:25	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none) · · · · · · · · · · · · · · · · · · ·	TR	
15/10/2020	Vantage Point Survey	VP2	1:00 starting at 18:25	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	200/2	TR	
22/10/2020	Vantage Point Survey	VP4	1:00 starting at 12:50	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	,	TR	
22/10/2020	Vantage Point Survey	VP4	1:00 starting at 13:50	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR	
22/10/2020	Vantage Point Survey	VP4	1:00 starting at 14:50	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR	
22/10/2020	Vantage Point Survey	VP4	1:00 starting at 16:20	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR	
22/10/2020	Vantage Point Survey	VP4	1:00 starting at 17:20	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR	
22/10/2020	Vantage Point Survey	VP4	1:00 starting at 18:20	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR	
12/11/2020	Vantage Point Survey	VP1	3:00 starting at 08:00	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR	
12/11/2020	Vantage Point Survey	VP1	3:00 starting at 11:30	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
13/11/2020	Vantage Point Survey	VP3	3:00 starting at 07:40	Visibility: good; Wind speed and direction: strong breeze SSW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		AR	
13/11/2020	Vantage Point Survey	VP3	3:00 starting at 11:10	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
28/11/2020	Vantage Point Survey	VP2	3:00 starting at 08:00	Visibility: good; Wind speed and direction: light air ENE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none) · · · · · · · · · · · · · · · · · · ·	AR
28/11/2020	Vantage Point Survey	VP2	3:00 starting at 11:30	Visibility: good; Wind speed and direction: light air ENE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	100/2	AR
29/11/2020	Vantage Point Survey	VP4	3:00 starting at 08:00	Visibility: poor; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		AR
29/11/2020	Vantage Point Survey	VP4	3:00 starting at 11:30	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		AR
14/12/2020	Vantage Point Survey	VP1	3:00 starting at 10:45	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		AR
14/12/2020	Vantage Point Survey	VP1	3:00 starting at 14:15	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		AR
16/12/2020	Vantage Point Survey	VP3	3:00 starting at 10:45	Visibility: good; Wind speed and direction: near gale SW; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow; none		AR
16/12/2020	Vantage Point Survey	VP3	3:00 starting at 14:15	Visibility: good; Wind speed and direction: fresh breeze SSW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		AR
28/12/2020	Vantage Point Survey	VP4	3:00 starting at 10:45	Visibility: good; Wind speed and direction: gale NNW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		AR
28/12/2020	Vantage Point Survey	VP4	3:00 starting at 14:15	Visibility: good; Wind speed and direction: near gale NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
30/12/2020	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: light; Snow: none		AR
30/12/2020	Vantage Point Survey	VP2	3:00 starting at 14:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/01/2021	Vantage Point Survey	VP1	3:00 starting at 08:00	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	, 5	AR
13/01/2021	Vantage Point Survey	VP1	3:00 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	100/2	AR
15/01/2021	Vantage Point Survey	VP3	3:00 starting at 08:00	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
15/01/2021	Vantage Point Survey	VP3	3:00 starting at 11:30	Visibility: good; Wind speed and direction: near gale SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
16/01/2021	Vantage Point Survey	VP2	3:00 starting at 08:00	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
16/01/2021	Vantage Point Survey	VP2	3:00 starting at 11:30	Visibility: good; Wind speed and direction: near gale WNW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR
28/01/2021	Vantage Point Survey	VP4	3:00 starting at 08:00	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	heavy rain showers at times	AR
28/01/2021	Vantage Point Survey	VP4	3:00 starting at 11:30	Visibility: good; Wind speed and direction: near gale W; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		AR
13/02/2021	Vantage Point Survey	VP1	3:00 starting at 11:45	Visibility: good; Wind speed and direction: near gale SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		AR
13/02/2021	Vantage Point Survey	VP1	3:00 starting at 15:15	Visibility: good; Wind speed and direction: near gale SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		AR
17/02/2021	Vantage Point Survey	VP4	3:00 starting at 12:30	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
17/02/2021	Vantage Point Survey	VP4	3:00 starting at 16:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
25/02/2021	Vantage Point Survey	VP3	3:00 starting at 12:30	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none) ,	AR	
25/02/2021	Vantage Point Survey	VP3	3:00 starting at 16:00	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	100/2	AR	
27/02/2021	Vantage Point Survey	VP2	3:00 starting at 12:30	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
27/02/2021	Vantage Point Survey	VP2	3:00 starting at 16:10	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
17/03/2021	Vantage Point Survey	VP3	3:00 starting at 07:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
17/03/2021	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
18/03/2021	Vantage Point Survey	VP2	3:00 starting at 06:30	Visibility: good; Wind speed and direction: strong breeze NNW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow; none		AR	
18/03/2021	Vantage Point Survey	VP2	3:00 starting at 10:00	Visibility: good; Wind speed and direction: strong breeze NNW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		AR	
19/03/2021	Vantage Point Survey	VP1	3:00 starting at 06:30	Visibility: good; Wind speed and direction: fresh breeze NNE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
19/03/2021	Vantage Point Survey	VP1	3:00 starting at 10:00	Visibility: good; Wind speed and direction: fresh breeze NNE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
23/03/2021	Vantage Point Survey	VP4	3:00 starting at 06:30	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
23/03/2021	Vantage Point Survey	VP4	3:00 starting at 10:00	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor		
07/04/2021	Vantage Point Survey	VP1	3:00 starting at 14:30	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none) , , , , , , , ,	AR		
07/04/2021	Vantage Point Survey	VP1	3:00 starting at 18:00	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	100/2	AR		
08/04/2021	Vantage Point Survey	VP3	3:00 starting at 14:30	Visibility: good; Wind speed and direction: strong breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
08/04/2021	Vantage Point Survey	VP3	3:00 starting at 18:00	Visibility: good; Wind speed and direction: strong breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
15/04/2021	Vantage Point Survey	VP2	3:00 starting at 14:30	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR		
15/04/2021	Vantage Point Survey	VP2	3:00 starting at 18:00	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR		
16/04/2021	Vantage Point Survey	VP4	3:00 starting at 14:45	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR		
16/04/2021	Vantage Point Survey	VP4	3:00 starting at 18:15	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR		
08/05/2021	Vantage Point Survey	VP4	3:00 starting at 05:30	Visibility: good; Wind speed and direction: fresh breeze SSW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR		
08/05/2021	Vantage Point Survey	VP4	3:00 starting at 09:00	Visibility: good; Wind speed and direction: fresh breeze SSW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR		
09/05/2021	Vantage Point Survey	VP1	3:00 starting at 05:30	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers	AR		
09/05/2021	Vantage Point Survey	VP1	3:00 starting at 09:00	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers	AR		



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
11/05/2021	Vantage Point Survey	VP3	3:00 starting at 05:15	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none) - (2)	AR	
11/05/2021	Vantage Point Survey	VP3	3:00 starting at 08:45	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	09/2	AR	
12/05/2021	Vantage Point Survey	VP2	3:00 starting at 05:15	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	10	AR	
12/05/2021	Vantage Point Survey	VP2	3:00 starting at 08:45	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR	
04/06/2021	Vantage Point Survey	VP2	3:00 starting at 07:00	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR	
04/06/2021	Vantage Point Survey	VP2	3:00 starting at 10:30	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR	
06/06/2021	Vantage Point Survey	VP1	3:00 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow; none		AR	
06/06/2021	Vantage Point Survey	VP1	3:00 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR	
07/06/2021	Vantage Point Survey	VP3	3:00 starting at 07:00	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
07/06/2021	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
09/06/2021	Vantage Point Survey	VP4	3:00 starting at 07:00	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light shower to persistent rain in 3rd hour	AR	
09/06/2021	Vantage Point Survey	VP4	3:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light shower to persistent rain in 3rd hour	AR	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/07/2021	Vantage Point Survey	VP1	6:00 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none) · · · · · · · · · · · · · · · · · · ·	AR
09/07/2021	Vantage Point Survey	VP4	6:00 starting at 08:00	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	100/2	AR
10/07/2021	Vantage Point Survey	VP3	3:00 starting at 07:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
10/07/2021	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
17/07/2021	Vantage Point Survey	VP2	6:00 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		AR
19/08/2021	Vantage Point Survey	VP1	3:00 starting at 13:00	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
19/08/2021	Vantage Point Survey	VP1	3:00 starting at 16:30	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
20/08/2021	Vantage Point Survey	VP4	3:00 starting at 07:00	Visibility: good; Wind speed and direction: strong breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
20/08/2021	Vantage Point Survey	VP4	3:00 starting at 10:30	Visibility: good; Wind speed and direction: strong breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
24/08/2021	Vantage Point Survey	VP2	3:00 starting at 07:30	Visibility: good; Wind speed and direction: fresh breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AR
24/08/2021	Vantage Point Survey	VP2	3:00 starting at 11:00	Visibility: good; Wind speed and direction: fresh breeze N; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AR
25/08/2021	Vantage Point Survey	VP3	3:00 starting at 07:30	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
25/08/2021	Vantage Point Survey	VP3	3:00 starting at 11:00	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none) · · · · · · · · · · · · · · · · · · ·	AR
13/09/2021	Vantage Point Survey	VP4	3:00 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	Showers at times	AR
13/09/2021	Vantage Point Survey	VP4	3:00 starting at 17:30	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	Showers at times	AR
25/09/2021	Vantage Point Survey	VP1	3:00 starting at 13:30	Visibility: good; Wind speed and direction: fresh breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
25/09/2021	Vantage Point Survey	VP1	3:00 starting at 17:00	Visibility: good; Wind speed and direction: fresh breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
29/09/2021	Vantage Point Survey	VP2	3:00 starting at 13:30	Visibility: good; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Light shower last hour	AR
29/09/2021	Vantage Point Survey	VP2	3:00 starting at 17:00	Visibility: good; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Light shower last hour	AR
30/09/2021	Vantage Point Survey	VP3	3:00 starting at 13:15	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	Light showers last 3 hours	AR
30/09/2021	Vantage Point Survey	VP3	3:00 starting at 16:45	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	Light showers last 3 hours	AR
15/10/2021	Vantage Point Survey	VP4	1:00 starting at 07:00	Visibility: limited; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC
15/10/2021	Vantage Point Survey	VP4	1:00 starting at 08:00	Visibility: poor; Wind speed and direction: gentle breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC
15/10/2021	Vantage Point Survey	VP4	1:00 starting at 09:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
15/10/2021	Vantage Point Survey	VP4	1:00 starting at 10:30	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	, 5	PDC	
15/10/2021	Vantage Point Survey	VP4	1:00 starting at 11:30	$Q_{Q_{i}}$	100/3	PDC	
15/10/2021	Vantage Point Survey	VP4	1:00 starting at 12:30			PDC	
19/10/2021	Vantage Point Survey	VP2	1:00 starting at 06:55	Visibility: none; Wind speed and direction; moderate breeze S; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		PDC	
19/10/2021	Vantage Point Survey	VP2	1:00 starting at 07:55	Visibility: limited; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		PDC	
19/10/2021	Vantage Point Survey	VP2	1:00 starting at 08:55	Visibility: moderate; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% <150m; Rain: light showers; Frost: none; Snow: none		PDC	
19/10/2021	Vantage Point Survey	VP2	3:00 starting at 10:25	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC	
21/10/2021	Vantage Point Survey	VP1	1:00 starting at 07:00	Visibility: limited; Wind speed and direction: light breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		PDC	
21/10/2021	Vantage Point Survey	VP1	1:00 starting at 08:00	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		PDC	
21/10/2021	Vantage Point Survey	VP1	1:00 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		PDC	
21/10/2021	Vantage Point Survey	VP1	1:00 starting at 10:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		PDC	
21/10/2021	Vantage Point Survey	VP1	1:00 starting at 11:30	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		PDC	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
21/10/2021	Vantage Point Survey	VP1	1:00 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none) '	PDC
22/10/2021	Vantage Point Survey	VP3	1:00 starting at 07:05	Visibility: limited; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	100/2	PDC
22/10/2021	Vantage Point Survey	VP3	1:00 starting at 08:05	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	10	PDC
22/10/2021	Vantage Point Survey	VP3	1:00 starting at 09:05	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		PDC
22/10/2021	Vantage Point Survey	VP3	1:00 starting at 10:35	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		PDC
22/10/2021	Vantage Point Survey	VP3	1:00 starting at 11:35	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		PDC
22/10/2021	Vantage Point Survey	VP3	1:00 starting at 12:35	Visibility: moderate; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none		PDC
09/11/2021	Vantage Point Survey	VP1	6:00 starting at 11:45	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
10/11/2021	Vantage Point Survey	VP2	3:00 starting at 11:15	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
10/11/2021	Vantage Point Survey	VP2	3:00 starting at 14:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
22/11/2021	Vantage Point Survey	VP4	6:00 starting at 11:45	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR
30/11/2021	Vantage Point Survey	VP3	3:00 starting at 11:00	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Persistent rain last hour	AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
30/11/2021	Vantage Point Survey	VP3	3:00 starting at 14:30	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none	Persistent rain last hour	AR	
01/12/2021	Vantage Point Survey	VP4	1:00 starting at 06:45	Visibility: limited; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	00/2	PDC	
01/12/2021	Vantage Point Survey	VP4	1:00 starting at 07:45	Visibility: poor; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain; none; Frost: none; Snow: none		PDC	
01/12/2021	Vantage Point Survey	VP4	1:00 starting at 08:45	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC	
01/12/2021	Vantage Point Survey	VP4	1:00 starting at 10:15	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC	
01/12/2021	Vantage Point Survey	VP4	1:00 starting at 11:15	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		PDC	
01/12/2021	Vantage Point Survey	VP4	1:00 starting at 12:15	Visibility: good; Wind speed and direction: near gale NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		PDC	
13/12/2021	Vantage Point Survey	VP1	1:00 starting at 06:45	Visibility: limited; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC	
13/12/2021	Vantage Point Survey	VP1	1:00 starting at 07:45	Visibility: poor; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC	
13/12/2021	Vantage Point Survey	VP1	1:00 starting at 08:45	Visibility: moderate; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC	
13/12/2021	Vantage Point Survey	VP1	3:00 starting at 10:15	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC	
14/12/2021	Vantage Point Survey	VP3	1:00 starting at 06:40	Visibility: limited; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none	Frosty in sheltered areas for most of the morning	PDC	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
14/12/2021	Vantage Point Survey	VP3	1:00 starting at 07:40	Visibility: poor; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow; none	, , , , , , , , , , , , , , , , , , , 	PDC
14/12/2021	Vantage Point Survey	VP3	1:00 starting at 08:40	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none	100/2	PDC
14/12/2021	Vantage Point Survey	VP3	1:00 starting at 10:10	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		PDC
14/12/2021	Vantage Point Survey	VP3	2:00 starting at 11:10	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		PDC
19/12/2021	Vantage Point Survey	VP2	3:00 starting at 07:30	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No HH seen	AR
19/12/2021	Vantage Point Survey	VP2	3:00 starting at 11:00	Visibility: good; Wind speed and direction: gentle breeze SF; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No HH seen	AR
06/01/2022	Vantage Point Survey	VP1	3:00 starting at 10:45	Visibility: good; Wind speed and direction: strong breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Light showers at times	AR
06/01/2022	Vantage Point Survey	VP1	3:00 starting at 14:30	Visibility: good; Wind speed and direction: strong breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Light showers at times	AR
08/01/2022	Vantage Point Survey	VP3	3:00 starting at 11:00	Visibility: good; Wind speed and direction: fresh breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
08/01/2022	Vantage Point Survey	VP3	3:00 starting at 14:30	Visibility: good; Wind speed and direction: fresh breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
27/01/2022	Vantage Point Survey	VP2	3:00 starting at 11:30	Visibility: good; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
27/01/2022	Vantage Point Survey	VP2	3:00 starting at 15:00	Visibility: good; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor		
28/01/2022	Vantage Point Survey	VP4	3:00 starting at 11:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
28/01/2022	Vantage Point Survey	VP4	3:00 starting at 15:00	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	00/2	AR		
07/02/2022	Vantage Point Survey	VP1	3:00 starting at 07:05	Visibility: good; Wind speed and direction: strong breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Drizzle first hour and Light rain for 10 minutes	AR		
07/02/2022	Vantage Point Survey	VP1	3:00 starting at 10:35	Visibility: good; Wind speed and direction: strong breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
08/02/2022	Vantage Point Survey	VP4	3:00 starting at 07:00	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Drizzle at times	AR		
08/02/2022	Vantage Point Survey	VP4	3:00 starting at 10:30	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	Drizzle at times	AR		
16/02/2022	Vantage Point Survey	VP2	3:00 starting at 06:50	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow; none	Drizzle at times	AR		
16/02/2022	Vantage Point Survey	VP2	3:00 starting at 10:20	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow; none	Drizzle at times	AR		
17/02/2022	Vantage Point Survey	VP3	3:00 starting at 07:00	Visibility: good; Wind speed and direction: near gale W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers at times	AR		
17/02/2022	Vantage Point Survey	VP3	3:00 starting at 10:30	Visibility: good; Wind speed and direction: near gale W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers at times	AR		
03/03/2022	Vantage Point Survey	VP4	3:00 starting at 13:00	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
03/03/2022	Vantage Point Survey	VP4	3:00 starting at 16:30	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
04/03/2022	Vantage Point Survey	VP1	3:00 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	<u> </u>	AR
04/03/2022	Vantage Point Survey	VP1	3:00 starting at 16:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	100/2	AR
12/03/2022	Vantage Point Survey	VP3	3:00 starting at 13:31	Visibility: good; Wind speed and direction: strong breeze ESE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
12/03/2022	Vantage Point Survey	VP3	3:00 starting at 17:01	Visibility: good; Wind speed and direction: strong breeze ESE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
29/03/2022	Vantage Point Survey	VP2	3:00 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR
29/03/2022	Vantage Point Survey	VP2	3:00 starting at 18:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR
19/04/2022	Vantage Point Survey	VP3	3:00 starting at 05:30	Visibility: good; Wind speed and direction: light air WSW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none		ZE
19/04/2022	Vantage Point Survey	VP3	3:00 starting at 09:00	Visibility: good; Wind speed and direction: light air WNW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
20/04/2022	Vantage Point Survey	VP1	3:00 starting at 05:20	Visibility: poor; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	heavy fog	ZE
20/04/2022	Vantage Point Survey	VP1	3:00 starting at 08:50	Visibility: good; Wind speed and direction: light air SSE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		ZE
21/04/2022	Vantage Point Survey	VP4	3:00 starting at 05:20	Visibility: good; Wind speed and direction: light air ESE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		ZE
21/04/2022	Vantage Point Survey	VP4	3:00 starting at 08:50	Visibility: good; Wind speed and direction: light air ESE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	few gunshots in W	ZE



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
22/04/2022	Vantage Point Survey	VP2	3:00 starting at 05:20	Visibility: good; Wind speed and direction: light breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	<u> </u>	ZE
22/04/2022	Vantage Point Survey	VP2	3:00 starting at 08:50	Visibility: good; Wind speed and direction: light breeze ENE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	100/2	ZE
09/05/2022	Vantage Point Survey	VP4	0:30 starting at 19:15	Visibility: moderate; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
09/05/2022	Vantage Point Survey	VP4	2:30 starting at 19:45	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
12/05/2022	Vantage Point Survey	VP1	3:00 starting at 15:45	Visibility: good; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
12/05/2022	Vantage Point Survey	VP3	3:00 starting at 19:15	Visibility: good; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
16/05/2022	Vantage Point Survey	VP2	3:00 starting at 19:30	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
07/06/2022	Vantage Point Survey	VP1	3:00 starting at 08:30	Visibility: good; Wind speed and direction: light breeze SSE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	plane flew above the fields at 10:05am	ZE
07/06/2022	Vantage Point Survey	VP1	3:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	tractor in the fields spreading slurry	ZE
08/06/2022	Vantage Point Survey	VP3	3:00 starting at 09:20	Visibility: moderate; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	occasional dry breaks or heavy shovers; heavy machinery noise from pig farm direction	ZE
08/06/2022	Vantage Point Survey	VP3	3:00 starting at 12:50	Visibility: good; Wind speed and direction: near gale WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	heavy machinery noise from pig farm direction	ZE
09/06/2022	Vantage Point Survey	VP4	3:00 starting at 09:30	Visibility: moderate; Wind speed and direction: strong breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	occasional dry breaks or short heavy shower	ZE



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
09/06/2022	Vantage Point Survey	VP4	3:00 starting at 13:00	Visibility: ; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	0 0. 122,	ZE
10/06/2022	Vantage Point Survey	VP2	3:00 starting at 09:10	Visibility: good; Wind speed and direction: fresh breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	occasional short light shover; machinery noises throughout as turf was collected in the big cutover bog	ZE
10/06/2022	Vantage Point Survey	VP2	3:00 starting at 12:40	Visibility: good; Wind speed and direction: strong breeze SSW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	only two short light shovers; machinery noises	XI.
01/07/2022	Vantage Point Survey	VP1	3:00 starting at 08:45	Visibility: good; Wind speed and direction: light air SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	drizzle for last 5 minutes of survey	ZE
04/07/2022	Vantage Point Survey	VP3	3:00 starting at 11:50	Visibility: good; Wind speed and direction: light breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
05/07/2022	Vantage Point Survey	VP4	3:00 starting at 09:00	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
05/07/2022	Vantage Point Survey	VP2	3:00 starting at 12:30	Visibility: good; Wind speed and direction: light breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
21/07/2022	Vantage Point Survey	VP1	3:00 starting at 08:15	Visibility: good; Wind speed and direction: light air NNE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
21/07/2022	Vantage Point Survey	VP1	3:00 starting at 11:45	Visibility: good; Wind speed and direction: light air NNE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	tractor on fields	ZE
22/07/2022	Vantage Point Survey	VP3	2:00 starting at 08:30	Visibility: good; Wind speed and direction: calm SSE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		ZE
22/07/2022	Vantage Point Survey	VP3	1:00 starting at 10:30	Visibility: good; Wind speed and direction: light air SSE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		ZE
22/07/2022	Vantage Point Survey	VP3	3:00 starting at 12:00	Visibility: good; Wind speed and direction: light air SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
26/07/2022	Vantage Point Survey	VP4	3:00 starting at 08:30	Visibility: good; Wind speed and direction: light air NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	, , , , , , , , , , , , , , , , , , , 	ZE	
26/07/2022	Vantage Point Survey	VP4	3:00 starting at 12:00	Visibility: good; Wind speed and direction: light air NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	gun shot sounds from VV heavy machinery noises from N	ZE	
28/07/2022	Vantage Point Survey	VP2	2:00 starting at 08:20	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	machinery noises from commercial bog from 09:30 am; people collecting turf in the bog	ZE	
28/07/2022	Vantage Point Survey	VP2	1:00 starting at 10:20	Visibility: good; Wind speed and direction: E; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		ZE	
28/07/2022	Vantage Point Survey	VP2	3:00 starting at 11:50	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	very little noise from commercial bog; no people collecting turf	ZE	
04/08/2022	Vantage Point Survey	VP1	3:00 starting at 08:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		ZE	
04/08/2022	Vantage Point Survey	VP1	3:00 starting at 12:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE	
05/08/2022	Vantage Point Survey	VP3	3:00 starting at 08:45	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE	
05/08/2022	Vantage Point Survey	VP3	3:00 starting at 12:15	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE	
23/08/2022	Vantage Point Survey	VP4	3:00 starting at 10:00	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE	
23/08/2022	Vantage Point Survey	VP4	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	at 15:35 a small plane flying SE, very low	ZE	
24/08/2022	Vantage Point Survey	VP2	3:00 starting at 09:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
24/08/2022	Vantage Point Survey	VP2	3:00 starting at 13:00	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none)	ZE
01/09/2022	Vantage Point Survey	VP3	3:00 starting at 14:50	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	100/2	ZE
01/09/2022	Vantage Point Survey	VP3	3:00 starting at 18:20	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 66-100% 150-500m; Rain; none; Frost: none; Snow: none	at 18:25 and 19:08 small plane flying W over the VP	ZE O
02/09/2022	Vantage Point Survey	VP1	3:00 starting at 14:50	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
02/09/2022	Vantage Point Survey	VP1	2:00 starting at 18:20	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	gun shot like sounds at 19:55 from pig farm direction	ZE
02/09/2022	Vantage Point Survey	VP1	0:35 starting at 20:20	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
02/09/2022	Vantage Point Survey	VP1	0:25 starting at 20:55	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
06/09/2022	Vantage Point Survey	VP4	1:00 starting at 14:40	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
06/09/2022	Vantage Point Survey	VP4	0:40 starting at 15:40	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
06/09/2022	Vantage Point Survey	VP4	1:20 starting at 16:20	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	3x two minutes long light shower	ZE
06/09/2022	Vantage Point Survey	VP4	0:40 starting at 18:10	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
06/09/2022	Vantage Point Survey	VP4	0:30 starting at 18:50	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
06/09/2022	Vantage Point Survey	VP4	1:50 starting at 19:20	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	at 19:50 mist starts to form on the field	ZE
07/09/2022	Vantage Point Survey	VP2	0:30 starting at 14:40	Visibility: moderate; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	cows in the field	ZE
07/09/2022	Vantage Point Survey	VP2	1:20 starting at 15:10	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
07/09/2022	Vantage Point Survey	VP2	1:10 starting at 16:30	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
07/09/2022	Vantage Point Survey	VP2	0:40 starting at 18:10	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
07/09/2022	Vantage Point Survey	VP2	1:10 starting at 18:50	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
07/09/2022	Vantage Point Survey	VP2	1:10 starting at 20:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
19/10/2022	Vantage Point Survey	VP4	3:00 starting at 06:36	Visibility: good; Wind speed and direction: fresh breeze E; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		CF
19/10/2022	Vantage Point Survey	VP4	3:00 starting at 10:06	Visibility: good; Wind speed and direction: fresh breeze E; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		CF
21/10/2022	Vantage Point Survey	VP2	3:00 starting at 06:42	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CF
21/10/2022	Vantage Point Survey	VP2	3:00 starting at 10:12	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CF
25/10/2022	Vantage Point Survey	VP1	3:00 starting at 07:20	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor		
25/10/2022	Vantage Point Survey	VP1	3:00 starting at 10:51	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none) · · · · · · · · · · · · · · · · · · ·	CF		
27/10/2022	Vantage Point Survey	VP3	3:00 starting at 07:22	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	200/2	CF		
27/10/2022	Vantage Point Survey	VP3	3:00 starting at 10:58	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		G.		
15/11/2022	Vantage Point Survey	VP4	6:00 starting at 12:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
16/11/2022	Vantage Point Survey	VP2	6:00 starting at 12:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
17/11/2022	Vantage Point Survey	VP1	6:00 starting at 12:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
07/12/2022	Vantage Point Survey	VP4	6:00 starting at 08:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: heavy; Snow: none		CF		
12/12/2022	Vantage Point Survey	VP2	6:00 starting at 08:00	Visibility: none; Wind speed and direction: light air W; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: heavy; Snow: none		CF		
22/12/2022	Vantage Point Survey	VP3a	6:00 starting at 08:00	Visibility: limited; Wind speed and direction: light air W; Cloud cover and height: 0-36% >500m; Rain: none; Frost: heavy; Snow: none		CF		
06/01/2023	Vantage Point Survey	VP2	3:00 starting at 07:50	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none				
06/01/2023	Vantage Point Survey	VP2	3:00 starting at 11:20	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
09/01/2023	Vantage Point Survey	VP3a	3:00 starting at 07:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor		
09/01/2023	Vantage Point Survey	VP3a	3:00 starting at 11:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none) · · · · · · · · · · · · · · · · · · ·	CF		
16/01/2023	Vantage Point Survey	VP4	3:00 starting at 07:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: heavy; Snow: none	100/2	CF		
16/01/2023	Vantage Point Survey	VP4	3:00 starting at 11:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: heavy; Snow: none	,	(F)		
23/01/2023	Vantage Point Survey	VP3a	3:00 starting at 07:30	Visibility: ; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CF		
23/01/2023	Vantage Point Survey	VP3a	3:00 starting at 11:00	Visibility: ; Wind speed and direction: light air W; Cloud cover and height: 33-66% ; Rain: none; Frost: none; Snow: none	Extra to account for missing survey from November	CF		
24/01/2023	Vantage Point Survey	VP1a	3:00 starting at 07:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
24/01/2023	Vantage Point Survey	VP1a	3:00 starting at 11:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
03/02/2023	Vantage Point Survey	VP4	3:00 starting at 06:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
03/02/2023	Vantage Point Survey	VP4	3:00 starting at 10:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
13/02/2023	Vantage Point Survey	VP3a	3:00 starting at 06:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
13/02/2023	Vantage Point Survey	VP3a	3:00 starting at 10:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF		
22/02/2023	Vantage Point Survey	VP1a	1:30 starting at 06:35	Visibility: good; Wind speed and direction: light breeze WNW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		ZE		



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
22/02/2023	Vantage Point Survey	VP1a	1:30 starting at 08:05	Visibility: good; Wind speed and direction: light breeze WNW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none) · · · · · · · · · · · · · · · · · · ·	ZE
22/02/2023	Vantage Point Survey	VP1a	1:00 starting at 10:05	Visibility: good; Wind speed and direction: gentle breeze WNW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	09/2/	ZE
22/02/2023	Vantage Point Survey	VP1a	2:00 starting at 11:05	Visibility: good; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	machinery noise until the end of survey	ZE
24/02/2023	Vantage Point Survey	VP2	3:00 starting at 07:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
24/02/2023	Vantage Point Survey	VP2	3:00 starting at 11:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
28/02/2023	Vantage Point Survey	VP1a	3:00 starting at 06:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CF
28/02/2023	Vantage Point Survey	VP1a	3:00 starting at 10:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CF
03/03/2023	Vantage Point Survey	VP4	3:00 starting at 13:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
03/03/2023	Vantage Point Survey	VP4	3:00 starting at 16:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
08/03/2023	Vantage Point Survey	VP1a	3:00 starting at 13:00	Visibility: good; Wind speed and direction: near gale W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
08/03/2023	Vantage Point Survey	VP1a	3:00 starting at 16:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
13/03/2023	Vantage Point Survey	VP3a	3:00 starting at 13:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/03/2023	Vantage Point Survey	VP3a	3:00 starting at 16:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none) · · · · · · · · · · · · · · · · · · ·	CF
14/03/2023	Vantage Point Survey	VP2	3:00 starting at 13:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	200/2	CF
14/03/2023	Vantage Point Survey	VP2	3:00 starting at 16:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	10	G C



Table 2 Breeding	g Walkover Survey Effort					
Date	Survey	Location	Duration (h)	Weather Conditions	Cornnents	Surveyor
10/04/2021	Breeding Walkover Survey	Transect A	6:30 starting at 06:30	Visibility: good; Wind speed and direction: gentle breeze NNW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: light; Snow: none	.50	AR
11/04/2021	Breeding Walkover Survey	Transect C	6:30 starting at 06:30	Visibility: good; Wind speed and direction: moderate breeze NNW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: none	50/	AR
12/04/2021	Breeding Walkover Survey	Transect B	6:30 starting at 06:30	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers	AR
13/05/2021	Breeding Walkover Survey	Transect A	6:30 starting at 05:15	Visibility: good; Wind speed and direction; gentle breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
22/05/2021	Breeding Walkover Survey	Transect B	6:30 starting at 05:30	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
24/05/2021	Breeding Walkover Survey	Transect C	6:30 starting at 05:30	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
11/06/2021	Breeding Walkover Survey	Transect A	7:00 starting at 06:00	Visibility: good; Wind speed and direction: strong breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
25/06/2021	Breeding Walkover Survey	Transect B	6:30 starting at 06:00	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
28/06/2021	Breeding Walkover Survey	Transect C	6:30 starting at 06:00	Visibility: good; Wind speed and direction: gentle breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
16/07/2021	Breeding Walkover Survey	Transect C	6:30 starting at 07:00	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	By 10:00am it had got very hot and birds got very quiet	AR
18/07/2021	Breeding Walkover Survey	Transect A	6:30 starting at 07:00	Visibility: good; Wind speed and direction: light breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		AR
25/07/2021	Breeding Walkover Survey	Transect B	6:30 starting at 06:30	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
13/04/2022	Breeding Walkover Survey	Transect A	3:00 starting at 06:45	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none) <u>'</u>	ZE
13/04/2022	Breeding Walkover Survey	Transect A	3:00 starting at 10:15	Visibility: good; Wind speed and direction: light air SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	plane flying in the area at low levels from approx 11:30	ZE
14/04/2022	Breeding Walkover Survey	Transect B, C	3:00 starting at 06:40	Visibility: good; Wind speed and direction: light air SSE; Cloud cover and height: 66-100% 150-500m; Rain; none; Frost: none; Snow: none	heard shooting	DE.
14/04/2022	Breeding Walkover Survey	Transect B, C	3:00 starting at 10:10	Visibility: good; Wind speed and direction: light air SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	heard shooting and machinery and tractor noise	ZE
18/05/2022	Breeding Walkover Survey	TA	4:30 starting at 05:30	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		ZE
18/05/2022	Breeding Walkover Survey	TA	1:30 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
19/05/2022	Breeding Walkover Survey	ТВ,С	2:50 starting at 05:40	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		ZE
19/05/2022	Breeding Walkover Survey	TB, C	3:10 starting at 08:50	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
15/06/2022	Breeding Walkover Survey	Transect A	4:30 starting at 05:30	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
15/06/2022	Breeding Walkover Survey	Transect A	1:30 starting at 10:15	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
16/06/2022	Breeding Walkover Survey	Transect B + C	6:00 starting at 05:45	Visibility: good; Wind speed and direction: calm S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
08/07/2022	Breeding Walkover Survey	T1, T2, T3	3:30 starting at 05:30	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		ZE



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/07/2022	Breeding Walkover Survey	T1, T2, T3	2:30 starting at 09:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none) · · · · · · · · · · · · · · · · · · ·	ZE
11/07/2022	Breeding Walkover Survey	T4, T5	3:15 starting at 05:45	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	200/2	ZE
11/07/2022	Breeding Walkover Survey	T4, T5	2:45 starting at 09:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 66-100% 150-500m; Rain; none; Frost: none; Snow: none	people starting to work on turf; cars and tractors coming and going	ZE ZE



Table 3 Breeding Raptor Survey Effort

Table 3 Breeding	g Raptor Survey Effort					
Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
20/04/2021	Breeding Raptor Survey	BRVP2	6:30 starting at 06:30	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers	AR
21/04/2021	Breeding Raptor Survey	BRVP1	6:30 starting at 06:30	Visibility: good; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: light; Snow: none	92	AR
22/04/2021	Breeding Raptor Survey	BR WALKOVER	6:30 starting at 07:00	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		AR
10/05/2021	Breeding Raptor Survey	BRVP2	6:30 starting at 07:00	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Heavy shower last hour	AR
14/05/2021	Breeding Raptor Survey	Sharragh	6:30 starting at 07:30	Visibility: good; Wind speed and direction: fresh breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
15/05/2021	Breeding Raptor Survey	BRVP1	6:30 starting at 06:00	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
05/06/2021	Breeding Raptor Survey	BRVP2	6:30 starting at 07:00	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AR
08/06/2021	Breeding Raptor Survey	BRVP1	6:30 starting at 09:00	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
29/06/2021	Breeding Raptor Survey	Sharragh	6:30 starting at 07:30	Visibility: good; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
07/07/2021	Breeding Raptor Survey	BRVP2	6:30 starting at 11:30	Visibility: good; Wind speed and direction: moderate breeze NNE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
23/07/2021	Breeding Raptor Survey	BRVP1	6:30 starting at 07:00	Visibility: good; Wind speed and direction: fresh breeze ENE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
24/07/2021	Breeding Raptor Survey	Walkover	6:30 starting at 07:00	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AR



ъ.	G.	¥	D 2 (1)	W 4 0 12		C
Date	Survey	Location	Duration (h)	Weather Conditions	mments	Surveyor
20/04/2022	Breeding Raptor Survey	BRT3	0:55 starting at 08:15	Visibility: limited; Wind speed and direction: calm NW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Foggy	NL
20/04/2022	Breeding Raptor Survey	BRT3	1:20 starting at 09:10	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Large rook roost in nearby farm yard. Immature woodland, filled with willow at head height. Lots of small ponds along track. View of conifers (near pig farm) mid way up track looking across	NL
					large pond.	
20/04/2022	Breeding Raptor Survey	BRVP4	2:15 starting at 11:00	Visibility: good; Wind speed and direction: calm NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		NL
26/04/2022	Breeding Raptor Survey	BRVP1	6:00 starting at 07:30	Visibility: good; Wind speed and direction: light air E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	plus the transect	ZE
27/04/2022	Breeding Raptor Survey	BRVP2	4:30 starting at 07:30	Visibility: good; Wind speed and direction: light air ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	plus the transect	ZE
27/04/2022	Breeding Raptor Survey	BRVP2	1:30 starting at 12:00	Visibility: good; Wind speed and direction: light air ENE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	transect	ZE
24/05/2022	Breeding Raptor Survey	BRVP1	6:00 starting at 07:50	Visibility: good; Wind speed and direction: light air WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
25/05/2022	Breeding Raptor Survey	BRVP2	0:50 starting at 07:30	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE
25/05/2022	Breeding Raptor Survey	BRVP2	5:10 starting at 08:20	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	from approx 08:30 turf cutting - digger - in the bog where BRVP2 is situated; still on after the survey finished	ZE
26/05/2022	Breeding Raptor Survey	BRVP4	1:30 starting at 07:20	Visibility: moderate; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		ZE



Date	Survey	Location	Duration (h)	Weather Conditions	comments	Surveyor
26/05/2022	Breeding Raptor Survey	BRVP4	1:30 starting at 08:55	Visibility: moderate; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none) · / 2/	ZE
26/05/2022	Breeding Raptor Survey	BRVP3	0:45 starting at 10:45	Visibility: moderate; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	00/2	ZE
26/05/2022	Breeding Raptor Survey	BRVP3	2:15 starting at 11:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
20/06/2022	Breeding Raptor Survey	BRVP1	6:00 starting at 07:00	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		ZE
21/06/2022	Breeding Raptor Survey	BRVP2	6:00 starting at 07:10	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
27/06/2022	Breeding Raptor Survey	BRVP4	1:30 starting at 06:40	Visibility: good; Wind speed and direction: light air WSW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		ZE
27/06/2022	Breeding Raptor Survey	BRVP4	1:30 starting at 08:20	Visibility: good; Wind speed and direction: light air WSW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		ZE
27/06/2022	Breeding Raptor Survey	BRVP3	3:00 starting at 10:15	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
06/07/2022	Breeding Raptor Survey	BRVP1	3:00 starting at 07:00	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		ZE
06/07/2022	Breeding Raptor Survey	BRVP1	3:00 starting at 10:00	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	heavy machinery noises from pig farm direction; last 10min drizzle	ZE
07/07/2022	Breeding Raptor Survey	BRVP2	3:45 starting at 07:15	Visibility: good; Wind speed and direction: light air NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	from approx. 09:00am people working on turf, cars and tractors coming and going	ZE
07/07/2022	Breeding Raptor Survey	BRVP2	2:15 starting at 11:00	Visibility: good; Wind speed and direction: calm NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		ZE



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
25/07/2022	Breeding Raptor Survey	BRVP3	3:00 starting at 08:10	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost:	9.	ZE
			08:10	none; Snow: none	72	
25/07/2022	Breeding Raptor Survey	BRVP4	1:30 starting at	Visibility: good; Wind speed and direction: gentle breeze NW;	00	ZE
			11:30	Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	2	
25/07/2022	Breeding Raptor Survey	BRVP4	1:30 starting at	Visibility: good; Wind speed and direction: gentle breeze NW;		ZE
			13:10	Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		\ 3
29/07/2022	Breeding Raptor Survey	ML VP	6:00 starting at	Visibility: good; Wind speed and direction: light air S; Cloud	VP coordinates 53.0650000,-	ZE
			06:40	cover and height: 66-100% 150-500m; Rain: none; Frost: none;	8.0263257	
				Snow: none		



Table 4 Breeding Woodcock Survey Effort

Table 4 Breeding	g Woodcock Survey Effort					•
Date	Survey	Location	Duration (h)	Weather Conditions	Cornnents	Surveyor
10/05/2021	Breeding Woodcock Survey	Transect B	3:00 starting at 20:30	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers first nour	AR
13/05/2021	Breeding Woodcock Survey	Transect A	3:00 starting at 20:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow:	20	AR
23/05/2021	Breeding Woodcock Survey	Transect C	3:29 starting at 20:30	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light shower last hour	AR
26/05/2021	Breeding Woodcock Survey	Transect D	3:00 starting at 20:30	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
04/06/2021	Breeding Woodcock Survey	Transect D	3:00 starting at 21:00	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
05/06/2021	Breeding Woodcock Survey	Transect A	3:00 starting at 21:00	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR
06/06/2021	Breeding Woodcock Survey	Transect C	3:00 starting at 21:15	Visibility: moderate; Wind speed and direction: light breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
10/06/2021	Breeding Woodcock Survey	Transect B	3:00 starting at 21:00	Visibility: good; Wind speed and direction: strong breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
24/06/2021	Breeding Woodcock Survey	Transect A	3:00 starting at 21:15	Visibility: moderate; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
25/06/2021	Breeding Woodcock Survey	Transect B	3:00 starting at 21:00	Visibility: moderate; Wind speed and direction: fresh breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
29/06/2021	Breeding Woodcock Survey	Transect D	3:00 starting at 21:00	Visibility: moderate; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
30/06/2021	Breeding Woodcock Survey	Transect C	3:00 starting at 21:15	Visibility: moderate; Wind speed and direction: moderate breeze E; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
23/05/2022	Breeding Woodcock Survey	T1	2:00 starting at 20:35	Visibility: good; Wind speed and direction: calm WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	occasional light shover	ZE
26/05/2022	Breeding Woodcock Survey	T2	1:00 starting at 20:34	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	00/2	KG
26/05/2022	Breeding Woodcock Survey	T2	1:00 starting at 20:45	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	,	1 50
26/05/2022	Breeding Woodcock Survey	T3	1:02 starting at 21:34	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		KG
26/05/2022	Breeding Woodcock Survey	Т3	1:00 starting at 21:45	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33%>500m; Rain: none; Frost: none; Snow: none		JS
30/05/2022	Breeding Woodcock Survey	T4	2:00 starting at 20:45	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
07/06/2022	Breeding Woodcock Survey	T1	1:00 starting at 20:28	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		KG
07/06/2022	Breeding Woodcock Survey	T1	1:00 starting at 20:50	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		JS
07/06/2022	Breeding Woodcock Survey	Т3	1:17 starting at 21:28	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: drizzle; Frost: none; Snow: none		KG
07/06/2022	Breeding Woodcock Survey	Т3	1:00 starting at 21:50	Visibility: moderate; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		JS
08/06/2022	Breeding Woodcock Survey	T2	1:00 starting at 20:36	Visibility: moderate; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		KG
08/06/2022	Breeding Woodcock Survey	T4	1:00 starting at 20:50	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		CC



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
08/06/2022	Breeding Woodcock Survey	Т2	1:19 starting at 21:36	Visibility: moderate; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none) '	KG
08/06/2022	Breeding Woodcock Survey	T4	1:05 starting at 21:50	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	200/2	CC
23/06/2022	Breeding Woodcock Survey	T4	2:00 starting at 21:00	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none	10	ZE
28/06/2022	Breeding Woodcock Survey	T3	2:00 starting at 21:00	Visibility: good; Wind speed and direction: light air N; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		TR
29/06/2022	Breeding Woodcock Survey	T1	2:00 starting at 21:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		ZE
29/06/2022	Breeding Woodcock Survey	T4	2:00 starting at 21:00	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 33-66% <150m; Rain: none; Frost: none; Snow: none		TR



Table 5 Breeding Barn Owl Survey Effort

Date	Survey	Location	Duration (h)	Weather Conditions	Compents	Surveyor
25/04/2023	Breeding Barn Owl Survey	BOVP1	1:30 starting at 20:15	Visibility: moderate; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	.550	CG
29/05/2023	Breeding Barn Owl Survey	BOVP1	2:00 starting at 22:00	Visibility: good; Wind speed and direction: gentle breeze NE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CG
21/06/2023	Breeding Barn Owl Survey	BOVP1	2:00 starting at 21:00	Visibility: good; Wind speed and direction: light breeze S; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		√Ç ©



Table 6 Winter Walkover Survey Effort

Table 6 Winter	Walkover Survey Effort							
Date	Survey	Location	Duration (h)	Weather Conditions	Corments	Surveyor		
30/10/2020	Winter Walkover Survey	500m radius	1:00 starting at 09:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	merlin x2 within 500m	TR		
30/10/2020	Winter Walkover Survey	500m radius	1:00 starting at 10:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	200	TR		
30/10/2020	Winter Walkover Survey	500m radius	1:00 starting at 11:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR		
30/10/2020	Winter Walkover Survey	500m radius	1:00 starting at 12:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR		
30/10/2020	Winter Walkover Survey	500m radius	1:00 starting at 13:30	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR		
31/01/2021	Winter Walkover Survey	500m radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	heavy rain first two hours	AR		
16/02/2021	Winter Walkover Survey	500m radius	7:05 starting at 07:55	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light Shower one of the hours	AR		
25/03/2021	Winter Walkover Survey	500m radius	6:30 starting at 07:00	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
11/10/2021	Winter Walkover Survey	500m radius	1:00 starting at 07:00	Visibility: limited; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	Thick fog all morning	PDC		
11/10/2021	Winter Walkover Survey	500m radius	3:00 starting at 08:00	Visibility: poor; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC		
11/10/2021	Winter Walkover Survey	500m radius	2:00 starting at 11:00	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Still misty around the sight.	PDC		
23/11/2021	Winter Walkover Survey	500m radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
03/02/2022	Winter Walkover Survey	500m radius	1:00 starting at 08:30	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none) · · · · · · · · · · · · · · · · · · ·	PDC	
03/02/2022	Winter Walkover Survey	500m radius	1:00 starting at 09:30	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	109/2	PDC	
03/02/2022	Winter Walkover Survey	500m radius	1:00 starting at 10:30	Visibility: poor; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		PDC	
03/02/2022	Winter Walkover Survey	500m radius	1:00 starting at 11:30	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC	
03/02/2022	Winter Walkover Survey	500m radius	1:30 starting at 12:30	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		PDC	
15/03/2022	Winter Walkover Survey	500m radius	3:00 starting at 08:50	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC	
15/03/2022	Winter Walkover Survey	500m radius	1:00 starting at 11:50	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow; none		PDC	
15/03/2022	Winter Walkover Survey	500m radius	1:00 starting at 12:50	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		PDC	
11/11/2022	Winter Walkover Survey	500m radius	6:45 starting at 09:15	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF	
18/01/2023	Winter Walkover Survey	500m radius	5:00 starting at 08:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: heavy; Snow: none		CF	
09/02/2023	Winter Walkover Survey	500m radius	5:00 starting at 08:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF	
16/03/2023	Winter Walkover Survey	500m radius	5:00 starting at 09:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF	



Table 7 Waterbi	ird Distribution Survey Effort							
Date	Survey	Location	Duration (h)	Weather Conditions	Cornents	Surveyor		
20/09/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 10:20	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	5	TK		
20/09/2020	Waterbird Distribution Survey	8km Radius	0:45 starting at 11:20	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	20	TK		
20/09/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:15	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		/IK		
20/09/2020	Waterbird Distribution Survey	8km Radius	0:50 starting at 13:15	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TK		
20/09/2020	Waterbird Distribution Survey	8km Radius	1:05 starting at 14:40	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TK		
20/09/2020	Waterbird Distribution Survey	8km Radius	0:45 starting at 15:55	Visibility: good; Wind speed and direction: gentle breeze ENE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TK		
29/09/2020	Waterbird Distribution Survey	8km Radius	0:40 starting at 11:35	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		TK		
29/09/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		TK		
29/09/2020	Waterbird Distribution Survey	8km Radius	1:15 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		TK		
29/09/2020	Waterbird Distribution Survey	8km Radius	0:30 starting at 15:10	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		TK		
29/09/2020	Waterbird Distribution Survey	8km Radius	1:05 starting at 16:20	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		TK		
09/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 09:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		TR		



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
09/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 10:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none) <u>'</u>	TR
09/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none	900	TR
09/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR
09/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: heavy showers; Frost: none; Snow: none		TR
09/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66%>500m; Rain: none; Frost: none; Snow: none		TR
09/10/2020	Waterbird Distribution Survey	8km Radius	0:30 starting at 15:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 33-66% >500m; Rain: light showers; Frost: none; Snow: none		TR
23/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 09:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: light showers; Frost: none; Snow: none		TR
23/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 10:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: light showers; Frost: none; Snow: none		TR
23/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 11:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: light showers; Frost: none; Snow: none		TR
23/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: heavy showers; Frost: none; Snow: none		TR
23/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 13:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		TR
23/10/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 14:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 0-33% >500m; Rain: heavy showers; Frost: none; Snow: none		TR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor		
23/10/2020	Waterbird Distribution Survey	8km Radius	0:45 starting at 15:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	No HH observed. Merlin male hunting bog. GPx320 commuting through (incidentals)	TR		
11/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 08:30	Visibility: good; Wind speed and direction: near gale S; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	2	AR 25		
11/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 09:30	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR		
11/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 10:30	Visibility: good; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR		
11/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR		
11/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:30	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR		
11/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 13:30	Visibility: good; Wind speed and direction: gentle breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		AR		
14/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 09:00	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
14/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 10:00	 Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none 		AR		
14/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 11:00	Visibility: good; Wind speed and direction: near gale SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		AR		
14/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:00	Visibility: good; Wind speed and direction: near gale SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
14/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 13:00	Visibility: good; Wind speed and direction: gale SSW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		AR		



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor		
14/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 14:00	Visibility: good; Wind speed and direction: near gale SSW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	<u> </u>	AR		
27/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 10:00	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	100/2	AR		
27/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 11:00	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain; none; Frost: none; Snow: none		AR		
27/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:00	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
27/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 13:00	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
27/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 14:00	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
27/11/2020	Waterbird Distribution Survey	8km Radius	1:25 starting at 15:00	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
30/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 08:00	Visibility: good; Wind speed and direction: light air WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
30/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 09:00	Visibility: good; Wind speed and direction: light air WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
30/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 10:00	Visibility: good; Wind speed and direction: light air WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
30/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 11:00	Visibility: good; Wind speed and direction: light air WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
30/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		AR		



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
30/11/2020	Waterbird Distribution Survey	8km Radius	1:00 starting at 13:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	, , , , , , , , , , , , , , , , , , , 	AR
15/12/2020	Waterbird Distribution Survey	8km Radius	3:00 starting at 08:30	Visibility: good; Wind speed and direction: moderate breeze SSE; Cloud cover and height: 33-66% <150m; Rain: none; Frost: none; Snow: none	*09/2	AR
15/12/2020	Waterbird Distribution Survey	8km Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 0-33% <150m; Rain: none; Frost: none; Snow: none		AR
17/12/2020	Waterbird Distribution Survey	8km Radius	3:00 starting at 08:30	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
17/12/2020	Waterbird Distribution Survey	8km Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: near gale S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
29/12/2020	Waterbird Distribution Survey	8km Radius	3:00 starting at 08:15	Visibility: good; Wind speed and direction: fresh breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
29/12/2020	Waterbird Distribution Survey	8km Radius	3:00 starting at 11:45	Visibility: good; Wind speed and direction: fresh breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
31/12/2020	Waterbird Distribution Survey	8km Radius	3:00 starting at 10:30	Visibility: good; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: on ground		AR
31/12/2020	Waterbird Distribution Survey	8km Radius	3:00 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
12/01/2021	Waterbird Distribution Survey	8km Radius	3:00 starting at 08:30	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Rain most of day	AR
12/01/2021	Waterbird Distribution Survey	8km Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Rain most of day	AR
14/01/2021	Waterbird Distribution Survey	8km Radius	3:00 starting at 08:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
14/01/2021	Waterbird Distribution Survey	8km Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	(12)	AR
29/01/2021	Waterbird Distribution Survey	8km Radius	3:00 starting at 08:30	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	100/2	AR
29/01/2021	Waterbird Distribution Survey	8km Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
30/01/2021	Waterbird Distribution Survey	8km Radius	3:00 starting at 08:00	Visibility: good; Wind speed and direction: near gale ENE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		AR
30/01/2021	Waterbird Distribution Survey	8km Radius	3:00 starting at 11:30	Visibility: good; Wind speed and direction: near gale ENE; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none		AR
14/02/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 09:00	Visibility: good; Wind speed and direction: near gale SW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	No rain last 3 hours	AR
15/02/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:30	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow; none		AR
24/02/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
26/02/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR
16/03/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: moderate breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
20/03/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
22/03/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
24/03/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: fresh breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none		AR
09/04/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:00	Visibility: good; Wind speed and direction: moderate breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers. Massive drop of water bodies in all flooded areas	AR
23/04/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:00	Visibility: good; Wind speed and direction: fresh breeze ESE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	,0	AR
07/05/2021	Waterbird Distribution Survey	8km Radius	6:45 starting at 07:00	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR
21/05/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 09:30	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Rain most of survey	AR
09/08/2021	Waterbird Distribution Survey	8km Radius	6:00 starting at 08:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		AR
31/08/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: strong breeze ENE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
14/09/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:00	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Light shower 4 hour	AR
28/09/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		AR
13/10/2021	Waterbird Distribution Survey	8km Radius	1:00 starting at 08:00	Visibility: moderate; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	North of site	PDC
13/10/2021	Waterbird Distribution Survey	8km Radius	4:40 starting at 09:00	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC
14/10/2021	Waterbird Distribution Survey	8km Radius	5:00 starting at 08:15	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	South of site	PDC



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
26/10/2021	Waterbird Distribution Survey	8km Radius	1:00 starting at 09:20	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	(, L	PDC
26/10/2021	Waterbird Distribution Survey	8km Radius	3:00 starting at 10:20	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	00/2	PDC
28/10/2021	Waterbird Distribution Survey	8km Radius	1:00 starting at 09:20	Visibility: moderate; Wind speed and direction: calm W; Cloud cover and height: 66-100% 150-500m; Rain; none; Frost: none; Snow: none		PDC
28/10/2021	Waterbird Distribution Survey	8km Radius	2:00 starting at 10:20	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
28/10/2021	Waterbird Distribution Survey	8km Radius	0:40 starting at 12:20	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		PDC
08/11/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
11/11/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Drizzle at times	AR
24/11/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	One light shower	AR
29/11/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers first two hours	AR
05/12/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:00	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		AR
06/12/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:00	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Showers at times	AR
20/12/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
21/12/2021	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none) - (2)	AR	
07/01/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Frost and Snow on ground first hour	AR	
09/01/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
30/01/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: none	Frost on ground first two hous	AR	
31/01/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
05/02/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: strong breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Heavy showers last two hours	AR	
06/02/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: strong breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow; none	Light shower last hour	AR	
18/02/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:30	Visibility: good; Wind speed and direction: near gale NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Light showers at times	AR	
19/02/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 07:30	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers first hour	AR	
10/03/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 08:00	Visibility: good; Wind speed and direction: fresh breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: heavy; Snow: none		AR	
11/03/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 06:30	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR	
30/03/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 10:00	Visibility: good; Wind speed and direction: gentle breeze NNE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
31/03/2022	Waterbird Distribution Survey	8km Radius	6:30 starting at 09:00	Visibility: good; Wind speed and direction: light breeze NNE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: light; Snow: none	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	AR	
07/04/2022	Waterbird Distribution Survey	8km Radius	0:25 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	700	NL	
07/04/2022	Waterbird Distribution Survey	8km Radius	0:08 starting at 09:37	Visibility: good; Wind speed and direction: calm SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Lots of passerines	NL	
07/04/2022	Waterbird Distribution Survey	8km Radius	0:28 starting at 10:15	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: heavy showers; Frost: none; Snow: none	bird hide	NL	
07/04/2022	Waterbird Distribution Survey	8km Radius	0:34 starting at 10:43	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	bird hide	NL	
07/04/2022	Waterbird Distribution Survey	8km Radius	1:10 starting at 11:35	Visibility: good; Wind speed and direction: gentle breeze SF; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Lots of passerines	NL	
07/04/2022	Waterbird Distribution Survey	8km Radius	0:30 starting at 13:00	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		NL	
07/04/2022	Waterbird Distribution Survey	8km Radius	0:45 starting at 14:30	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		NL	
07/04/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 15:20	Visibility: good; Wind speed and direction: light breeze SE; Cloud cover and height: 33-66% 150-500m; Rain: drizzle; Frost: none; Snow: none		NL	
11/04/2022	Waterbird Distribution Survey	8km Radius	0:40 starting at 08:40	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL	
11/04/2022	Waterbird Distribution Survey	8km Radius	0:26 starting at 09:34	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL	
11/04/2022	Waterbird Distribution Survey	8km Radius	1:12 starting at 10:28	Visibility: moderate; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% <150m; Rain: heavy showers; Frost: none; Snow: none	Bird hide. One heavy shower then clouds cleared and it was bright again	NL	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/04/2022	Waterbird Distribution Survey	8km Radius	0:40 starting at 11:45	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none) - (2)	NL
11/04/2022	Waterbird Distribution Survey	8km Radius	0:45 starting at 12:30	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none	*09/2/	NL
11/04/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 14:00	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL NL
11/04/2022	Waterbird Distribution Survey	8km Radius	0:30 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL
22/04/2022	Waterbird Distribution Survey	8km Radius	0:40 starting at 08:20	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Unoccupied nest in middle of Turlough	NL
22/04/2022	Waterbird Distribution Survey	8km Radius	0:24 starting at 09:36	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/04/2022	Waterbird Distribution Survey	8km Radius	1:00 starting at 10:20	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/04/2022	Waterbird Distribution Survey	8km Radius	0:25 starting at 11:45	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/04/2022	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:15	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/04/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 13:50	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/04/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 14:15	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
26/04/2022	Waterbird Distribution Survey	8km Radius	0:40 starting at 08:20	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Large reduction in water levels.	NL
26/04/2022	Waterbird Distribution Survey	8km Radius	0:30 starting at 09:30	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		NL



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
26/04/2022	Waterbird Distribution Survey	8km Radius	1:00 starting at 10:30	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	,5,	NL
26/04/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 11:45	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	000	NL
26/04/2022	Waterbird Distribution Survey	8km Radius	1:05 starting at 12:15	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Men fishing in middle of river so few birds near them	NL
26/04/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 13:40	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NS
26/04/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 14:10	Visibility: good; Wind speed and direction: calm W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
05/05/2022	Waterbird Distribution Survey	8km Radius	0:30 starting at 08:00	Visibility: good; Wind speed and direction: calm NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Very low water level	NL
05/05/2022	Waterbird Distribution Survey	8km Radius	0:25 starting at 08:55	Visibility: good; Wind speed and direction: calm NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL
05/05/2022	Waterbird Distribution Survey	8km Radius	1:10 starting at 09:45	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow; none		NL
05/05/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 11:20	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL
05/05/2022	Waterbird Distribution Survey	8km Radius	1:30 starting at 11:45	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL
05/05/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 13:30	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL
05/05/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 14:00	Visibility: good; Wind speed and direction: moderate breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL
11/05/2022	Waterbird Distribution Survey	8km Radius	0:40 starting at 07:00	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
11/05/2022	Waterbird Distribution Survey	8km Radius	0:26 starting at 07:49	Visibility: good; Wind speed and direction: light air SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		NL
11/05/2022	Waterbird Distribution Survey	8km Radius	1:10 starting at 08:40	Visibility: good; Wind speed and direction: strong breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none	100/2	NL
11/05/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 09:55	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		NL
11/05/2022	Waterbird Distribution Survey	8km Radius	1:20 starting at 10:20	Visibility: moderate; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none	Cows in field	NL
11/05/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 11:50	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		NL
11/05/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 12:15	Visibility: good; Wind speed and direction: fresh breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		NL
18/05/2022	Waterbird Distribution Survey	8km Radius	0:45 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		NL
18/05/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		NL
18/05/2022	Waterbird Distribution Survey	8km Radius	1:00 starting at 09:35	Visibility: good; Wind speed and direction: strong breeze NW; Cloud cover and height: 0-33% 150-500m; Rain: none; Frost: none; Snow: none		NL
18/05/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 10:45	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		NL
18/05/2022	Waterbird Distribution Survey	8km Radius	1:10 starting at 11:00	Visibility: good; Wind speed and direction: near gale NW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Storm coming in quickly	NL
18/05/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 12:20	Visibility: good; Wind speed and direction: near gale NW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		NL



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
18/05/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 12:45	Visibility: good; Wind speed and direction: near gale NW; Cloud cover and height: 66-100% 150-500m; Rain: persistent; Frost: none; Snow: none	(, , , , , , , , , , , , , , , , , , ,	NL
24/05/2022	Waterbird Distribution Survey	8km Radius	0:45 starting at 08:00	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	100 A	NL
24/05/2022	Waterbird Distribution Survey	8km Radius	0:27 starting at 09:00	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Ç	NL
24/05/2022	Waterbird Distribution Survey	8km Radius	1:05 starting at 09:55	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none		NL
24/05/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 11:10	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL
24/05/2022	Waterbird Distribution Survey	8km Radius	0:50 starting at 11:30	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Farmer said a lot of people have been fishing along river in recent days	NL
24/05/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 12:35	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow; none		NL
24/05/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 13:00	Visibility: good; Wind speed and direction: gentle breeze E; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		NL
18/10/2022	Waterbird Distribution Survey	8km Radius	0:30 starting at 08:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	Half Flooded.Hard to see through hedge that has regrown	NL
18/10/2022	Waterbird Distribution Survey	8km Radius	0:25 starting at 09:15	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Brackish fast flowing water. High water level probably due to high rainfall in previous two weeks.	NL
18/10/2022	Waterbird Distribution Survey	8km Radius	1:32 starting at 10:13	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	glarish	NL
18/10/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 11:50	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	glarish	NL



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
18/10/2022	Waterbird Distribution Survey	8km Radius	1:04 starting at 12:16	Visibility: moderate; Wind speed and direction: moderate breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Very glarish	NL
18/10/2022	Waterbird Distribution Survey	8km Radius	0:12 starting at 13:35	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	100/2	NL
18/10/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 13:55	Visibility: moderate; Wind speed and direction: gentle breeze W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	-0	NL
21/10/2022	Waterbird Distribution Survey	8km Radius	0:25 starting at 08:05	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		NL
21/10/2022	Waterbird Distribution Survey	8km Radius	0:25 starting at 08:45	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		NL
21/10/2022	Waterbird Distribution Survey	8km Radius	1:40 starting at 09:30	Visibility: poor; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: heavy showers; Frost: none; Snow: none	Heavy rain swept in after 45 minutes, reducing visability.	NL
21/10/2022	Waterbird Distribution Survey	8km Radius	0:35 starting at 11:15	Visibility: moderate; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		NL
21/10/2022	Waterbird Distribution Survey	8km Radius	1:10 starting at 12:00	Visibility: moderate; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		NL
21/10/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 13:35	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
21/10/2022	Waterbird Distribution Survey	8km Radius	0:08 starting at 14:02	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
25/10/2022	Waterbird Distribution Survey	8km Radius	0:30 starting at 08:30	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
25/10/2022	Waterbird Distribution Survey	8km Radius	0:13 starting at 09:17	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL



			- · · · · ·	*** 1 0 11		
Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
25/10/2022	Waterbird Distribution Survey	8km Radius	1:34 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) 'Z2	NL
25/10/2022	Waterbird Distribution Survey	8km Radius	0:30 starting at 11:45	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	09/2	NL
25/10/2022	Waterbird Distribution Survey	8km Radius	1:09 starting at 12:21	Visibility: moderate; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	Fairly glarish	NL
25/10/2022	Waterbird Distribution Survey	8km Radius	0:19 starting at 13:51	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
25/10/2022	Waterbird Distribution Survey	8km Radius	0:13 starting at 14:17	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
28/10/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 07:30	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Went to look for roosting whooper swans. No evidence/seen/heard. Private Road.	NL
28/10/2022	Waterbird Distribution Survey	8km Radius	0:38 starting at 08:10	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Sunrise @ 8:21am	NL
28/10/2022	Waterbird Distribution Survey	8km Radius	0:24 starting at 09:06	Visibility: good; Wind speed and direction: light breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	Flooded river banks	NL
28/10/2022	Waterbird Distribution Survey	8km Radius	1:30 starting at 09:55	Visibility: good; Wind speed and direction: strong breeze N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		NL
28/10/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 12:55	Visibility: good; Wind speed and direction: strong breeze N; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
28/10/2022	Waterbird Distribution Survey	8km Radius	1:20 starting at 13:10	Visibility: good; Wind speed and direction: strong breeze N; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	Glarish	NL
28/10/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 14:45	Visibility: good; Wind speed and direction: strong breeze N; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	Glarish	NL



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
28/10/2022	Waterbird Distribution Survey	8km Radius	0:09 starting at 15:00	Visibility: good; Wind speed and direction: moderate breeze N; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	Glarish	NL
03/11/2022	Waterbird Distribution Survey	8km Radius	5:30 starting at 09:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	09/2/	CF
09/11/2022	Waterbird Distribution Survey	8km Radius	5:30 starting at 09:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		OF CO
22/11/2022	Waterbird Distribution Survey	8km Radius	0:45 starting at 07:50	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	<5°C	NL
22/11/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 08:50	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/11/2022	Waterbird Distribution Survey	8km Radius	1:30 starting at 09:40	Visibility: good; Wind speed and direction: calm SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/11/2022	Waterbird Distribution Survey	8km Radius	0:15 starting at 11:25	Visibility: good; Wind speed and direction: calm SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/11/2022	Waterbird Distribution Survey	8km Radius	1:00 starting at 11:55	Visibility: good; Wind speed and direction: calm SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/11/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 13:10	Visibility: good; Wind speed and direction: calm SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
22/11/2022	Waterbird Distribution Survey	8km Radius	0:20 starting at 13:40	Visibility: good; Wind speed and direction: calm SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
29/11/2022	Waterbird Distribution Survey	8km Radius	0:07 starting at 08:13	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	2021 Whooper Swan Roost Location	NL
29/11/2022	Waterbird Distribution Survey	8km Radius	0:30 starting at 08:30	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
29/11/2022	Waterbird Distribution Survey	8km Radius	0:33 starting at 09:10	Visibility: good; Wind speed and direction: gentle breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
29/11/2022	Waterbird Distribution Survey	8km Radius	1:40 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	Wind started to pick up towards the end	NL
29/11/2022	Waterbird Distribution Survey	8km Radius	0:47 starting at 11:50	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	200/2	NL
29/11/2022	Waterbird Distribution Survey	8km Radius	1:00 starting at 12:45	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	-0	NL
29/11/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 14:05	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
29/11/2022	Waterbird Distribution Survey	8km Radius	0:10 starting at 14:20	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		NL
05/12/2022	Waterbird Distribution Survey	8km Radius	5:30 starting at 09:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none		CF
08/12/2022	Waterbird Distribution Survey	8km Radius	5:00 starting at 08:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none		CF
15/12/2022	Waterbird Distribution Survey	8km Radius	5:30 starting at 09:30	Visibility: poor; Wind speed and direction: light air W; Cloud cover and height: 0-34% >500m; Rain: none; Frost: heavy; Snow:		CF
21/12/2022	Waterbird Distribution Survey	8km Radius	5:30 starting at 09:30	Visibility: poor; Wind speed and direction: light air W; Cloud cover and height: 0-35% >500m; Rain: none; Frost: heavy; Snow: none		CF
04/01/2023	Waterbird Distribution Survey	8km Radius	5:30 starting at 09:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CF
11/01/2023	Waterbird Distribution Survey	8km Radius	5:30 starting at 09:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
18/01/2023	Waterbird Distribution Survey	8km Radius	3:30 starting at 13:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: heavy; Snow: none		CF



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
25/01/2023	Waterbird Distribution Survey	8km Radius	5:00 starting at 08:00	Visibility: moderate; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	(CF
02/02/2023	Waterbird Distribution Survey	8km Radius	5:30 starting at 09:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none	9/2/	CF
08/02/2023	Waterbird Distribution Survey	8km Radius	5:30 starting at 09:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	10	OF CO
14/02/2023	Waterbird Distribution Survey	8km Radius	5:00 starting at 08:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
22/02/2023	Waterbird Distribution Survey	8km Radius	5:00 starting at 08:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		CF
02/03/2023	Waterbird Distribution Survey	8km Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
10/03/2023	Waterbird Distribution Survey	8km Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
16/03/2023	Waterbird Distribution Survey	8km Radius	3:30 starting at 14:30	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
22/03/2023	Waterbird Distribution Survey	8km Radius	3:00 starting at 12:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF



Table 8 Hen Harrier Roost Survey Effort

Table 8 Hen Ha	urrier Roost Survey Effort							
Date	Survey	Location	Duration (h)	Weather Conditions	Cornnents	Surveyor		
27/10/2020	Hen Harrier Roost Survey	HHVP1	1:00 starting at 15:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none	.500	TR		
27/10/2020	Hen Harrier Roost Survey	HHVP1	1:00 starting at 16:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none	20	TR		
27/10/2020	Hen Harrier Roost Survey	HHVP1	0:10 starting at 17:40	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		TR		
28/10/2020	Hen Harrier Roost Survey	HHVP2	1:00 starting at 15:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: persistent; Frost: none; Snow: none		TR		
28/10/2020	Hen Harrier Roost Survey	HHVP2	1:05 starting at 16:45	Visibility: good; Wind speed and direction: gentle breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none	HHx1 going to roost	TR		
29/10/2020	Hen Harrier Roost Survey	HHVP3	1:00 starting at 15:45	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		TR		
29/10/2020	Hen Harrier Roost Survey	HHVP3	1:00 starting at 16:45	Visibility: good; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% >500m; Rain: light showers; Frost: none; Snow: none		TR		
30/10/2020	Hen Harrier Roost Survey	HHVP4	1:00 starting at 06:45	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: drizzle; Frost: none; Snow: none	HHX3 coming off nearby roost at dawn	TR		
30/10/2020	Hen Harrier Roost Survey	HHVP4	0:45 starting at 07:45	Visibility: good; Wind speed and direction: light breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		TR		
12/11/2020	Hen Harrier Roost Survey	HHVP1	1:14 starting at 15:00	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
12/11/2020	Hen Harrier Roost Survey	HHVP1	1:00 starting at 16:14	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		
12/11/2020	Hen Harrier Roost Survey	HHVP1	0:06 starting at 17:14	Visibility: good; Wind speed and direction: light air S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR		



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
13/11/2020	Hen Harrier Roost Survey	HHVP2	2:17 starting at 15:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none) · · · · · · · · · · · · · · · · · · ·	AR	
13/11/2020	Hen Harrier Roost Survey	HHVP2	2:17 starting at 15:00	Visibility: good; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	200/2	AR	
13/11/2020	Hen Harrier Roost Survey	HHVP2	2:17 starting at 15:00	Visibility: moderate; Wind speed and direction: fresh breeze S; Cloud cover and height: 66-100% 150-500m; Rain; none; Frost: none; Snow: none		AR	
28/11/2020	Hen Harrier Roost Survey	ннур3	2:35 starting at 14:30	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Imm/Female came in at 15:44 flew around the Bog a couple of time then headed away high.Height 25mts-5mts-25mts.	AR	
28/11/2020	Hen Harrier Roost Survey	HHVP3	2:35 starting at 14:30	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
28/11/2020	Hen Harrier Roost Survey	HHVP3	2:35 starting at 14:30	Visibility: good; Wind speed and direction: light air NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
30/11/2020	Hen Harrier Roost Survey	HHVP3	2:27 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none		AR	
30/11/2020	Hen Harrier Roost Survey	HHVP4	2:27 starting at 14:30	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
30/11/2020	Hen Harrier Roost Survey	HHVP4	2:27 starting at 14:30	Visibility: moderate; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
16/12/2020	Hen Harrier Roost Survey	HHVP2	3:00 starting at 07:30	Visibility: good; Wind speed and direction: gale SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR	
29/12/2020	Hen Harrier Roost Survey	HHVP4	2:30 starting at 15:00	Visibility: good; Wind speed and direction: fresh breeze NNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
30/12/2020	Hen Harrier Roost Survey	HHVP3	3:00 starting at 07:20	Visibility: good; Wind speed and direction: moderate breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: none	, , , , , , , , , , , , , , , , , , , 	AR
31/12/2020	Hen Harrier Roost Survey	HHVP1	2:50 starting at 07:20	Visibility: good; Wind speed and direction: moderate breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: light; Snow: on ground	709/2	AR
13/01/2021	Hen Harrier Roost Survey	HHVP2	3:00 starting at 14:45	Visibility: good; Wind speed and direction: fresh breeze SSW; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	light drizzle	AR
15/01/2021	Hen Harrier Roost Survey	HHVP1	3:00 starting at 14:45	Visibility: good; Wind speed and direction: near gale SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
29/01/2021	Hen Harrier Roost Survey	HHVP4	3:00 starting at 15:15	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
30/01/2021	Hen Harrier Roost Survey	HHVP3	3:10 starting at 15:00	Visibility: good; Wind speed and direction: strong breeze ENE; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
24/02/2021	Hen Harrier Roost Survey	HHVP2	3:00 starting at 16:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR
25/02/2021	Hen Harrier Roost Survey	HHVP1	3:00 starting at 06:30	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AR
26/02/2021	Hen Harrier Roost Survey	HHVP3	3:00 starting at 16:00	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR
27/02/2021	Hen Harrier Roost Survey	HHVP4	3:00 starting at 06:30	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		AR
17/03/2021	Hen Harrier Roost Survey	HHVP2	3:00 starting at 16:15	Visibility: good; Wind speed and direction: fresh breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No hen harrier	AR
19/03/2021	Hen Harrier Roost Survey	HHVP1	3:10 starting at 16:20	Visibility: good; Wind speed and direction: fresh breeze NNE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No hen harrier	AR



					Cir. J		
Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
24/03/2021	Hen Harrier Roost Survey	HHVP3	3:05 starting at 16:15	Visibility: good; Wind speed and direction: fresh breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost; none; Snow: none	No hen harrier	AR	
25/03/2021	Hen Harrier Roost Survey	HHVP4	3:00 starting at 16:30	Visibility: good; Wind speed and direction: strong breeze SW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No hen harrier	AR	
20/10/2021	Hen Harrier Roost Survey	HHVP2	1:00 starting at 15:45	Visibility: good; Wind speed and direction: gentle breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none		PDC	
20/10/2021	Hen Harrier Roost Survey	HHVP2	1:00 starting at 16:45	Visibility: poor; Wind speed and direction: light breeze N; Cloud cover and height: 33-66% 150-500m; Rain: none; Frost: none; Snow: none	Looking into low sun	PDC	
20/10/2021	Hen Harrier Roost Survey	HHVP2	0:45 starting at 17:45	Visibility: poor; Wind speed and direction: calm N; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		PDC	
26/10/2021	Hen Harrier Roost Survey	HHVP1	1:00 starting at 07:00	Visibility: limited; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		PDC	
26/10/2021	Hen Harrier Roost Survey	HHVP1	1:20 starting at 08:00	Visibility: moderate; Wind speed and direction: moderate breeze SW; Cloud cover and height: 66-100% <150m; Rain: drizzle; Frost: none; Snow: none		PDC	
27/10/2021	Hen Harrier Roost Survey	HHVP4	1:00 starting at 06:50	Visibility: limited; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		PDC	
27/10/2021	Hen Harrier Roost Survey	HHVP4	1:00 starting at 07:50	Visibility: poor; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		PDC	
27/10/2021	Hen Harrier Roost Survey	HHVP4	0:40 starting at 08:50	Visibility: moderate; Wind speed and direction: gentle breeze S; Cloud cover and height: 66-100% <150m; Rain: persistent; Frost: none; Snow: none		PDC	
28/10/2021	Hen Harrier Roost Survey	HHVP3	1:00 starting at 07:00	Visibility: none; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC	
28/10/2021	Hen Harrier Roost Survey	HHVP3	1:00 starting at 08:00	Visibility: poor; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC	
28/10/2021	Hen Harrier Roost Survey	ННУР3	0:20 starting at 09:00	Visibility: moderate; Wind speed and direction: calm W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		PDC	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
08/11/2021	Hen Harrier Roost Survey	HHVP1	3:00 starting at 14:40	Visibility: good; Wind speed and direction: moderate breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	, , ,	AR	
11/11/2021	Hen Harrier Roost Survey	HHVP4	3:00 starting at 14:30	Visibility: good; Wind speed and direction: strong breeze S; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	200/2	AR	
24/11/2021	Hen Harrier Roost Survey	HHVP3	3:00 starting at 14:40	Visibility: good; Wind speed and direction: light breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
29/11/2021	Hen Harrier Roost Survey	HHVP2	3:00 starting at 14:40	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
05/12/2021	Hen Harrier Roost Survey	HHVP2	3:10 starting at 14:15	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No HH seen	AR	
06/12/2021	Hen Harrier Roost Survey	HHVP1	3:00 starting at 14:30	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light shower first hour	AR	
20/12/2021	Hen Harrier Roost Survey	HHVP3	3:00 starting at 14:30	Visibility: good; Wind speed and direction: moderate breeze ESE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow; none	No HH seen	AR	
21/12/2021	Hen Harrier Roost Survey	HHVP4	3:00 starting at 14:30	Visibility: good; Wind speed and direction: moderate breeze SE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No HH seen	AR	
09/01/2022	Hen Harrier Roost Survey	HHVP3	3:00 starting at 14:30	Visibility: good; Wind speed and direction: gentle breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
28/01/2022	Hen Harrier Roost Survey	HHVP4	3:00 starting at 07:30	Visibility: good; Wind speed and direction: moderate breeze NW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
30/01/2022	Hen Harrier Roost Survey	HHVP2	3:00 starting at 15:15	Visibility: good; Wind speed and direction: fresh breeze WSW; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR	
31/01/2022	Hen Harrier Roost Survey	HHVP1	3:00 starting at 15:15	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	



						_	
Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor	
06/02/2022	Hen Harrier Roost Survey	HHVP2	3:00 starting at 15:26	Visibility: good; Wind speed and direction: fresh breeze WNW; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No HH observations		
08/02/2022	Hen Harrier Roost Survey	HHVP4	3:00 starting at 15:30	Visibility: good; Wind speed and direction: fresh breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	Light showers first hour. No HH observations	AR	
17/02/2022	Hen Harrier Roost Survey	HHVP1	3:00 starting at 15:50	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none	No HH observations	AR	
19/02/2022	Hen Harrier Roost Survey	HHVP3	3:00 starting at 15:50	Visibility: good; Wind speed and direction: strong breeze W; Cloud cover and height: 66-100% 150-500m; Rain: drizzle; Frost: none; Snow: none	No HH observations	AR	
10/03/2022	Hen Harrier Roost Survey	HHVP2	3:00 starting at 16:27	Visibility: good; Wind speed and direction: strong breeze SSE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow: none		AR	
11/03/2022	Hen Harrier Roost Survey	HHVP4	3:00 starting at 16:29	Visibility: good; Wind speed and direction: moderate breeze W; Cloud cover and height: 66-100% 150-500m; Rain: light showers; Frost: none; Snow: none		AR	
30/03/2022	Hen Harrier Roost Survey	HHVP1	3:00 starting at 18:00	Visibility: good; Wind speed and direction: fresh breeze NE; Cloud cover and height: 66-100% 150-500m; Rain: none; Frost: none; Snow; none		AR	
31/03/2022	Hen Harrier Roost Survey	HHVP3	3:00 starting at 18:00	Visibility: good; Wind speed and direction: light breeze NNE; Cloud cover and height: 33-66% >500m; Rain: none; Frost: none; Snow: none		AR	
25/10/2022	Hen Harrier Roost Survey	HHVP2	1:30 starting at 16:45	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	No HH observed	PM	
25/10/2022	Hen Harrier Roost Survey	HHVP2	1:00 starting at 18:15	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none	No HH observed	PM	
26/10/2022	Hen Harrier Roost Survey	HHVP4a	2:30 starting at 16:45	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	No HH observed	PM	
27/10/2022	Hen Harrier Roost Survey	HHVP1	2:30 starting at 16:45	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	No HH observed	PM	



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
28/10/2022	Hen Harrier Roost Survey	HHVP3	3:45 starting at 07:30	Visibility: good; Wind speed and direction: calm SW; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	NO HH OBS	CF
09/11/2022	Hen Harrier Roost Survey	HHVP4a	2:30 starting at 15:30	Visibility: good; Wind speed and direction: W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none	200	PM
24/11/2022	Hen Harrier Roost Survey	HHVP1	2:30 starting at 15:00	Visibility: good; Wind speed and direction: moderate breeze S; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		PM S
25/11/2022	Hen Harrier Roost Survey	HHVP3	4:00 starting at 14:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	NO HH OBS	CF
29/11/2022	Hen Harrier Roost Survey	HHVP2	2:30 starting at 15:00	Visibility: good; Wind speed and direction: gentle breeze SE; Cloud cover and height: 66-100% > 500m; Rain: none; Frost: none; Snow: none		PM
06/12/2022	Hen Harrier Roost Survey	HHVP3	3:30 starting at 08:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none		CF
07/12/2022	Hen Harrier Roost Survey	HHVP2	6:00 starting at 12:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none		CF
08/12/2022	Hen Harrier Roost Survey	HHVP4	4:00 starting at 14:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none		CF
09/12/2022	Hen Harrier Roost Survey	HHVP1	3:30 starting at 08:00	Visibility: limited; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: heavy; Snow: none		CF
24/01/2023	Hen Harrier Roost Survey	HHVP1	3:30 starting at 07:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CF
25/01/2023	Hen Harrier Roost Survey	HHVP1	3:30 starting at 14:00	Visibility: none; Wind speed and direction: light air W; Cloud cover and height: 66-100% <150m; Rain: none; Frost: none; Snow: none		CF
27/01/2023	Hen Harrier Roost Survey	HHVP3	3:30 starting at 07:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CF



Date	Survey	Location	Duration (h)	Weather Conditions	Comments	Surveyor
27/01/2023	Hen Harrier Roost Survey	HHVP4	3:30 starting at 14:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none). (2)	CF
14/02/2023	Hen Harrier Roost Survey	HHVP3	3:30 starting at 15:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none	09/2/	CF
22/02/2023	Hen Harrier Roost Survey	HHVP3	3:30 starting at 15:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 33-66% <150m; Rain: none; Frost: none; Snow: none	O'	6 3
24/02/2023	Hen Harrier Roost Survey	HHVP1	3:30 starting at 15:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
28/02/2023	Hen Harrier Roost Survey	HHVP4	3:30 starting at 15:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 0-33% >500m; Rain: none; Frost: none; Snow: none		CF
02/03/2023	Hen Harrier Roost Survey	HHVP2	3:30 starting at 16:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: none; Frost: none; Snow: none		CF
22/03/2023	Hen Harrier Roost Survey	HHVP3	3:30 starting at 16:00	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CF
23/03/2023	Hen Harrier Roost Survey	HHVP4	3:30 starting at 05:30	Visibility: good; Wind speed and direction: light air W; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CF
23/03/2023	Hen Harrier Roost Survey	HHVP1	3:30 starting at 16:00	Visibility: good; Wind speed and direction: light breeze W; Cloud cover and height: 66-100% >500m; Rain: heavy showers; Frost: none; Snow: none		CF