Technical Appendix 8.1

Baseline Ornithology Surveys

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1 Baseline Ornithology Surveys

1.1 Introduction

1.1.1 SLR was commissioned by 3R Energy ('the Applicant') to complete baseline ornithological surveys at the proposed Hagshaw Hill III Energy Project, located approximately 1.8 kilometres (km) west of Douglas and approximately 3.1 km south of Coalburn in the South Lanarkshire Council (SLC) local authority area. (hereafter referred to as 'the Proposed Development'). The surveys were conducted between March and August 2022 to inform an assessment of the potential ornithological effects of the Proposed Development on the species assemblage present.

1.1.2 This Technical Appendix summarises the methods employed and the results of the field surveys and is supported by the following Annexes:

- **Annex A**: Ornithological Survey Effort and General Information; and
- **Annex B**: Ornithological Survey Results.

1.1.3 Information relating to the collision risk modelling (CRM) is detailed in **Technical Appendix 8.2**.

1.1.4 A range of surveys were employed to accurately record baseline conditions within the Proposed Development and appropriate survey areas (detailed in **Annex B**). In this Technical Appendix, associated **Annexes A & B**, **Technical Appendix 8.2**, and **Chapter 8 (Ornithology)** of the Environmental Impact Assessment (EIA) Report, terms referred to are as follows:

- 'the site' refers to the area within the red line boundary, e.g. as shown on EIA Report **Figure 8.2a-c.**
- 'survey area' is defined as the area covered by each survey type for the Proposed Development; and
- 'study area' is defined as the area of consideration of effects on each species at the time of assessment, see **Figure 8.2a-c.**

1.2 Baseline Field Survey Methods

1.2.1 A target species list for surveying/recording was defined from the following lists and refined on the basis of the species perceived sensitivity to onshore wind farm developments (e.g., as set out in NatureScot 2025a[1] and Annex 1 of NatureScot 2025b[2]):

- Annex I of the EU Birds Directive[3];
- Schedule 1 the Wildlife and Countryside Act 1981 (as amended)[4]; and

[1] *NatureScot (2025a) Recommended Bird Survey Methods to inform impact assessment of Onshore Windfarms. Available at: https://www.nature.scot/doc/recommended-bird-survey-methods-inform-impact-assessment-onshore-windfarms*

[2] *NatureScot (2025b) Assessing the significance of impacts on bird populations from onshore wind farms that do not affect protected areas. Available at: https://www.nature.scot/doc/guidance-note-assessing-significance-impacts-bird-populations-onshore-wind-farms-do-not-affect*

[3] *Directive 2009/147/EC of the European Parliament and of the Council. Available at: https://www.legislation.gov.uk/eudr/2009/147/contents*

[4] *Scottish Government (1981). Wildlife and Countryside Act 1981. Available at: https://www.legislation.gov.uk/ukpga/1981/69*

- Species (excluding passerines) included on the Birds of Conservation Concern (BoCC) red list (Stanbury *et al*. 2022[5] and Stanbury *et al*. 2024[6]).

1.2.2 Secondary species for survey/recording were defined as the non-red list raptor and owl species (i.e. buzzard, kestrel, sparrowhawk, tawny owl and long-eared owl), amber or green listed waders, feral species (e.g. Canada goose), mallard, raven and any notable Schedule 1 or red listed passerine species observed during surveys.

1.2.3 The following surveys were undertaken at the site between March and August 2022:

- Flight activity surveys: one breeding season from four Vantage Points (VPs) (refer to EIA Report **Figure 8.3**). Surveys were undertaken monthly with reference to with SNH (2017) guidance; updated online to NatureScot (2025a[1]);
- Black grouse surveys: 1.5 km survey buffer, one breeding season with visits in April and May. Surveys were undertaken with reference to SNH (2017) and Gilbert *et al*. (1998[7]);
- Scarce breeding bird[8] surveys: 2 km survey buffer, one breeding season with monthly visits between March and August. Surveys were undertaken with reference to SNH (2017), Hardey *et al*. (2013[9]) and Gilbert *et al*. (1998[7]); and
- Moorland breeding bird surveys: 500 m survey buffer, one breeding season with monthly visits between April and July. Surveys were undertaken with reference to SNH (2017), Brown & Shepherd (1993[10]), Bibby *et al*. (2000[11]) and Calladine *et al*. (2009[12]).

1.2.4 VP selection and viewshed analysis was conducted using Arc GIS Pro to confirm suitable VP locations and their associated visible areas (viewsheds) at 20 m above ground level[13], with reconnaissance surveys undertaken to refine VP locations as needed. Care was taken to maximise the area visible from accessible land whilst minimising potential disturbance to birds and with reference to NatureScot guidance regarding viewshed selection. The final four VP locations were selected with the aim of achieving coverage of all the proposed turbine locations such that no turbine was more than 2 km from a VP. This objective was achieved. **Technical Appendix 8.3** provides detail of how this was taken into account during the collision modelling.

1.3 Baseline Survey Summary

1.3.1 All valid surveys were undertaken during suitable weather conditions. Where weather conditions deteriorated below acceptable conditions surveys were either suspended or additional surveys were undertaken (refer to **Annex A**). In the case of flight activity surveys, any time where the visibility was <1 km, this was excluded from total survey effort and subsequent analysis. Surveys for

[5] Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. (2021) The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. British Birds, 114, pp. 723-747

[6] Stanbury, A. J., Burns, F., Aebischer, N. J., Baker, H., Balmer, D. E., Brown, A., Dunn, T., Lindley, P., Murphy, M., Noble, D. G., Owens, R., and Quinn, L. (2024) The status of the UK's breeding seabirds: an addendum to the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. British Birds, 117, pp. 471-487.

[7] Gilbert, G., Gibbons, D. W. and Evans, J. (1998) Bird Monitoring Methods. RSPB, Sandy.

[8] For these surveys, 'scarce breeding birds' are considered to include any regionally present raptors, divers or owls listed on Schedule 1 of the Act and/or Annex I of the EU Birds Directive.

[9] Hardey, J., Crick, H., Wernham, C., Riley, H., Etheridge, B. and Thompson, D. (2013) Raptors: a field guide for surveys and monitoring (3rd edition). The Stationery Office, Edinburgh.

[10] Brown, A. F. and Shepherd, K. B. (1993) A method for censusing upland breeding waders. Bird Study, 40: 189-195.

[11] Bibby, C. J., Neil D. Burgess, David A. Hill and Simon H. Mustoe (2000) Bird Census Techniques, 2nd Edition, London, Academic Press.

[12] Calladine. J., Garner, G., Wernham, C., & Thiel, A. (2009) The influence of survey frequency on population estimates of moorland breeding birds. Bird Study, 56: 3, 381-388.

[13] The viewsheds are based on a 5 m DTM to provide a representation of visibility from the observer locations; this is confirmed and refined through field site visits.

species listed on Schedule 1 of the Act were carried out by appropriately licensed surveyors. All survey data was reviewed, inputted, and analysed by SLR.

1.3.2 A total of 61 bird species were recorded within, or adjacent to, the site during the various ornithological surveys conducted (Error! Reference source not found.). The survey effort and results of the field surveys are detailed within **Annex A** and **Annex B**. The following sections summarise the results from the flight activity surveys and the various distribution and abundance surveys (by species groups).

Flight Activity

1.3.3 Valid survey effort[14] is detailed in Error! Reference source not found. and full details of the flight activity surveys are contained in Annex **A**. NatureScot recommend a minimum of 36 hours of valid survey hours per VP per season (NatureScot 2025a[1]), which was achieved except for VP3 which was 1.5 hours short, due to bad weather.

Table 8.1.1: Summary of Total Hours of Valid Survey per VP per Season

Period	VP1	VP2	VP3	VP4
2022 Breeding Season	36	36	34.5	36

1.3.4 A total of four target species were recorded during the flight activity surveys (further details are provided in **Annex B**). For each species across the whole flight activity survey period, Error! Reference source not found. shows the total number of flights recorded and the total number of birds recorded[15]. The bird seconds are calculated for each observation as the product of flight duration and number of individuals. This is then summed per species to give the total bird seconds recorded across the entire surveyed period. Refer to **Technical Appendix 8.2** for information relating to the CRM.

Table 8.1.1: Target Species Recorded and Total Number of Flights Recorded During Flight Activity Surveys, 2022

Species	Total Number of Flightlines Recorded	Total Number of Birds Recorded	Total Bird Seconds Recorded
Curlew	6	8	345
Greylag goose	1	2	90
Herring gull	1	2	210
Snipe	1	1	12

Breeding Waders

1.3.5 Surveys recorded five wader species, of which four were considered to be breeding (Error! Reference source not found.). Golden plovers were also recorded during the spring/summer but were not considered to be breeding. **Annex B** contains the full details of all target wader activity recorded; refer to **Annex A** for general weather/survey data.

Table 8.1.2: Breeding Wader Territories, 2022

Species	Number of Territories 2022
Common sandpiper	2

[14] Hours where visibility was <1 km are not considered valid for use in collision risk modelling as less than half the 2 km viewshed can be seen.

[15] This includes flights that would not technically be 'at-risk' of collision (e.g. recorded outwith the CRAA and/or not at rotor height).

Species	Number of Territories 2022
Curlew	6 - 8
Oystercatcher	3 - 5
Snipe	8 - 12

Gulls

1.3.6 Gull activity was occasionally recorded during baseline surveys, with no evidence of breeding within the site. A summary is provided in Error! Reference source not found..

Table 8.1.3: Summary of Gull Activity, 2022.

Species	Total Number of Birds Recorded
Black-headed gull	3
Common gull	200
Great black-backed gull	2
Herring gull	2
Lesser black-backed gull	6

Bird Species Index

Table 8.1.4: All Bird Species Recorded During 2022 Baseline Surveys

Species	Conservation Status	Species	Conservation Status
Blackbird	BoCC[16] Green List	Goldfinch	BoCC Green List
Blackcap	BoCC Green List	Grasshopper warbler	BoCC Red List
Black-headed gull	BoCC Amber List	Great black-backed gull	BoCC Amber List
Blue tit	BoCC Green List	Great tit	BoCC Green List
Bullfinch	BoCC Amber List	Grey heron	BoCC Green List
Buzzard	BoCC Green List	Grey wagtail	BoCC Amber List
Carrion crow	BoCC Green List	Greylag goose	BoCC Amber List
Chaffinch	BoCC Green List	Herring gull	BoCC Red List
Chiffchaff	BoCC Green List	House martin	BoCC Red List
Coal tit	BoCC Green List	Jackdaw	BoCC Green List
Collared dove	BoCC Green List	Jay	BoCC Green List
Common crossbill	BoCC Green List	Kestrel	BoCC Amber List
Common gull	BoCC Amber List	Lesser black-backed gull	BoCC Amber List
Common sandpiper	BoCC Amber List	Redpoll	BoCC Red List
Common whitethroat	BoCC Amber List	Linnet	BoCC Red List
Cuckoo	BoCC Red List	Long-tailed tit	BoCC Green List
Curlew	BoCC Red List	Mallard	BoCC Amber List

[16] *BoCC – Birds of Conservation Concern (Stanbury et al. 2021)*

Species	Conservation Status	Species	Conservation Status
Dunnock	BoCC Amber List	Meadow pipit	BoCC Amber List
Feral pigeon	BoCC Green List	Mistle thrush	BoCC Red List
Fieldfare	BoCC Red List	Oystercatcher	BoCC Amber List
Golden plover	BoCC Green List	Pied wagtail	BoCC Green List
Raven	BoCC Green List	Starling	BoCC Red List
Reed bunting	BoCC Amber List	Stonechat	BoCC Green List
Robin	BoCC Green List	Swallow	BoCC Green List
Rook	BoCC Amber List	Swift	BoCC Red List
Sand martin	BoCC Green List	Wheatear	BoCC Amber List
Siskin	BoCC Green List	Whinchat	BoCC Red List
Skylark	BoCC Red List	Willow warbler	BoCC Amber List
Snipe	BoCC Amber List	Wood pigeon	BoCC Amber List
Song thrush	BoCC Amber List	Wren	BoCC Amber List

Annex A

Hagshaw Hill III Energy Project

Baseline Ornithology Surveys

Technical Appendix 8.1 Annex A

SLR Project No.: 413.V00478.00XM2

Client Name: 3R Energy

30 March 2026

Revision: 2

Annex A Ornithological Baseline Survey Effort

Table A-1 shows the system used for recording weather conditions for all surveys (Sections **A.1** to **A.4** below).

Table A-1: Key to Meteorological Conditions Recorded During all Surveys

Wind Speed				Rain		Cloud Cover		Cloud Height	
Calm	0	Moderate gale	7	None	0	In eighths		<150m	0
Light air	1	Fresh gale	8	Drizzle/Mist	1	e.g.	3/8	150-500m	1
Light breeze	2	Strong gale	9	Light showers	2			>500m	2
Gentle breeze	3	Whole gale	10	Heavy showers	3				
Moderate breeze	4	Storm	11	Heavy rain	4				
Fresh breeze	5	Hurricane	12	**Snow**		**Frost**		**Visibility**	
Strong breeze	6			None	0	None	0	Poor (<1km)	0
				On site	1	Ground	1	Moderate (1-2km)	1
				High ground	2	All day	2	Good (>2km)	2

A.1 Flight Activity Surveys

Details of the flight activity survey hours undertaken across each Vantage Point (VP) location are supplied in **Table A-2**.

Table A-2: Summary of Flight Activity Surveys Undertaken in 2022 (sorted chronologically)

Date	Season	Observer	VP	Survey Start Time	Survey Finish Time	No. Hours[1] Surveyed
Date	**Season**	**Observer**	**VP**	**Start**	**Finish**	**Hours**
28/04/2022	2022 BR	EB	1	1045	1345	3
28/04/2022	2022 BR	TH	2	1030	1330	3
29/04/2022	2022 BR	EB	3	0715	1015	3
29/04/2022	2022 BR	TH	4	0710	1010	3
02/05/2022	2022 BR	EB	2	0900	1200	3
02/05/2022	2022 BR	EB	2	1230	1530	3
10/05/2022	2022 BR	EB	1	1215	1515	3
11/05/2022	2022 BR	EB	4	0830	1130	3
11/05/2022	2022 BR	EB	4	1200	1500	3
23/05/2022	2022 BR	TH	1	1100	1400	3
23/05/2022	2022 BR	TH	1	1430	1730	3
24/05/2022	2022 BR	TH	4	0930	1230	3
24/05/2022	2022 BR	TH	4	1300	1600	3
27/05/2022	2022 BR	MW	1	0600	0900	3
31/05/2022	2022 BR	EB	1	0930	1230	3
31/05/2022	2022 BR	EB	1	1300	1600	3
31/05/2022	2022 BR	TH	3	0930	1230	3
31/05/2022	2022 BR	TH	3	1300	1600	3
31/05/2022	2022 BR	SK	4	0930	1230	3
31/05/2022	2022 BR	SK	4	1300	1600	3
02/06/2022	2022 BR	TH	2	0930	1230	3
02/06/2022	2022 BR	TH	2	1300	1600	3
10/06/2022	2022 BR	TH	1	0915	1215	3
10/06/2022	2022 BR	TH	1	1245	1545	3
15/06/2022	2022 BR	TH	3	1030	1330	3
15/06/2022	2022 BR	TH	3	1400	1530	1.5
15/06/2022	2022 BR	EB	4	0930	1230	3
15/06/2022	2022 BR	EB	4	1300	1600	3
17/06/2022	2022 BR	MW	3	0600	0900	3
17/06/2022	2022 BR	MW	3	0930	1230	3
22/06/2022	2022 BR	SK	3	0800	1100	3
22/06/2022	2022 BR	SK	3	1130	1430	3
11/07/2022	2022 BR	EB	2	0930	1230	3
11/07/2022	2022 BR	EB	2	1300	1600	3
25/07/2022	2022 BR	EB	3	1015	1315	3
25/07/2022	2022 BR	EB	3	1345	1645	3
08/08/2022	2022 BR	TH	1	0930	1230	3
08/08/2022	2022 BR	TH	4	1245	1545	3
11/08/2022	2022 BR	TH	1	0815	1115	3
11/08/2022	2022 BR	TH	1	1145	1445	3
11/08/2022	2022 BR	SK	2	0800	1100	3
11/08/2022	2022 BR	SK	2	1130	1430	3
15/08/2022	2022 BR	MW	2	1000	1300	3
15/08/2022	2022 BR	MW	3	0630	0930	3
15/08/2022	2022 BR	TH	4	0930	1230	3
15/08/2022	2022 BR	TH	4	1300	1600	3
26/08/2022	2022 BR	TH	2	0940	1240	3
26/08/2022	2022 BR	TH	2	1310	1610	3

[1] Note: only valid hours (i.e. where visibility was at least 1 km) are presented in this column.

Table A-3: Meteorological Conditions during Flight Activity Surveys in 2022 (sorted chronologically)

Date	Season	Observer	VP	Survey Start Time	Survey Finish Time	Hour	Wind Speed	Wind Direction	Rain	Cloud Cover	Cloud Height	Visibility	Frost / Snow
28/04/2022	2022 BR	EB	1	1045	1345	1	2	S	0	8	2	2	0
28/04/2022	2022 BR	EB	1	1045	1345	2	2	S	0	8	2	2	0
28/04/2022	2022 BR	EB	1	1045	1345	3	2	S	0	8	2	2	0
28/04/2022	2022 BR	TH	2	1030	1330	1	1	S	0	8	2	2	0
28/04/2022	2022 BR	TH	2	1030	1330	2	2	S	0	8	2	2	0
28/04/2022	2022 BR	TH	2	1030	1330	3	2	S	0	8	2	2	0
29/04/2022	2022 BR	EB	3	0715	1015	1	2	S	0	0	2	2	0
29/04/2022	2022 BR	EB	3	0715	1015	2	2	S	0	0	2	2	0
29/04/2022	2022 BR	EB	3	0715	1015	3	2	S	0	0	2	2	0
29/04/2022	2022 BR	TH	4	0710	1010	1	1	NE	0	0	2	2	0
29/04/2022	2022 BR	TH	4	0710	1010	2	1	NE	0	0	2	2	0
29/04/2022	2022 BR	TH	4	0710	1010	3	1	NE	0	0	2	2	0
02/05/2022	2022 BR	EB	2	0900	1200	1	2	W	0	8	2	2	0
02/05/2022	2022 BR	EB	2	0900	1200	2	2	W	0	8	2	2	0
02/05/2022	2022 BR	EB	2	0900	1200	3	2	W	0	8	2	2	0
02/05/2022	2022 BR	EB	2	1230	1530	1	2	W	0	8	2	2	0
02/05/2022	2022 BR	EB	2	1230	1530	2	2	W	0	8	2	2	0
02/05/2022	2022 BR	EB	2	1230	1530	3	2	W	1	8	1	2	0
10/05/2022	2022 BR	EB	1	1215	1515	1	5	W	0	8	2	2	0
10/05/2022	2022 BR	EB	1	1215	1515	2	5	W	3	8	2	2	0
10/05/2022	2022 BR	EB	1	1215	1515	3	6	W	1	7	2	2	0
11/05/2022	2022 BR	EB	4	0830	1130	1	4	W	0	7	2	2	0
11/05/2022	2022 BR	EB	4	0830	1130	2	4	W	2	8	2	2	0
11/05/2022	2022 BR	EB	4	0830	1130	3	4	W	0	6	2	2	0
11/05/2022	2022 BR	EB	4	1200	1500	1	4	W	1	7	2	2	0
11/05/2022	2022 BR	EB	4	1200	1500	2	4	W	0	7	2	2	0
11/05/2022	2022 BR	EB	4	1200	1500	3	4	W	2	7	2	2	0
23/05/2022	2022 BR	TH	1	1100	1400	1	4	W	1	6	2	2	0
23/05/2022	2022 BR	TH	1	1100	1400	2	4	W	0	5	2	2	0
23/05/2022	2022 BR	TH	1	1100	1400	3	4	W	0	6	2	2	0
23/05/2022	2022 BR	TH	1	1430	1730	1	3	NW	0	4	2	2	0
23/05/2022	2022 BR	TH	1	1430	1730	2	4	NW	0	4	2	2	0
23/05/2022	2022 BR	TH	1	1430	1730	3	4	NW	0	5	2	2	0
24/05/2022	2022 BR	TH	4	0930	1230	1	3	W	0	6	2	2	0
24/05/2022	2022 BR	TH	4	0930	1230	2	3	W	0	5	2	2	0

Date	Season	Observer	VP	Survey Start Time	Survey Finish Time	Hour	Wind Speed	Wind Direction	Rain	Cloud Cover	Cloud Height	Visibility	Frost / Snow
24/05/2022	2022 BR	TH	4	0930	1230	3	3	W	2	7	2	2	0
24/05/2022	2022 BR	TH	4	1300	1600	1	4	W	3	8	2	1	0
24/05/2022	2022 BR	TH	4	1300	1600	2	3	W	3	8	2	1	0
24/05/2022	2022 BR	TH	4	1300	1600	3	3	W	4	8	2	1	0
27/05/2022	2022 BR	MW	1	0600	0900	1	7	WNW	3	8	2	2	0
27/05/2022	2022 BR	MW	1	0600	0900	2	7	WNW	3	8	2	2	0
27/05/2022	2022 BR	MW	1	0600	0900	3	7	WNW	3	8	2	2	0
31/05/2022	2022 BR	EB	1	0930	1230	1	2	NE	0	8	2	2	0
31/05/2022	2022 BR	EB	1	0930	1230	2	2	NE	0	7	2	2	0
31/05/2022	2022 BR	EB	1	0930	1230	3	2	NE	0	6	2	2	0
31/05/2022	2022 BR	EB	1	1300	1600	1	3	NE	0	7	2	2	0
31/05/2022	2022 BR	EB	1	1300	1600	2	3	NE	0	8	2	2	0
31/05/2022	2022 BR	EB	1	1300	1600	3	3	NE	0	8	2	2	0
31/05/2022	2022 BR	TH	3	0930	1230	1	2	NE	0	4	2	2	0
31/05/2022	2022 BR	TH	3	0930	1230	2	2	NE	0	5	2	2	0
31/05/2022	2022 BR	TH	3	0930	1230	3	2	NE	0	5	2	2	0
31/05/2022	2022 BR	TH	3	1300	1600	1	1	NE	0	7	2	2	0
31/05/2022	2022 BR	TH	3	1300	1600	2	2	N	0	7	2	2	0
31/05/2022	2022 BR	TH	3	1300	1600	3	2	N	0	5	2	2	0
31/05/2022	2022 BR	SK	4	0930	1230	1	3	NE	0	7	1	2	0
31/05/2022	2022 BR	SK	4	0930	1230	2	3	NE	0	6	1	2	0
31/05/2022	2022 BR	SK	4	0930	1230	3	3	NE	0	6	1	2	0
31/05/2022	2022 BR	SK	4	1300	1600	1	3	NE	0	7	1	2	0
31/05/2022	2022 BR	SK	4	1300	1600	2	3	NE	0	8	1	2	0
31/05/2022	2022 BR	SK	4	1300	1600	3	2	NE	0	7	1	2	0
02/06/2022	2022 BR	TH	2	0930	1230	1	2	SW	0	5	2	2	0
02/06/2022	2022 BR	TH	2	0930	1230	2	2	S	0	4	2	2	0
02/06/2022	2022 BR	TH	2	0930	1230	3	3	S	0	4	2	2	0
02/06/2022	2022 BR	TH	2	1300	1600	1	2	S	0	4	2	2	0
02/06/2022	2022 BR	TH	2	1300	1600	2	2	S	0	3	2	2	0
02/06/2022	2022 BR	TH	2	1300	1600	3	3	S	0	4	2	2	0
10/06/2022	2022 BR	TH	1	0915	1215	1	4	SW	0	3	2	2	0
10/06/2022	2022 BR	TH	1	0915	1215	2	4	SW	0	4	2	2	0
10/06/2022	2022 BR	TH	1	0915	1215	3	4	SW	0	5	2	2	0
10/06/2022	2022 BR	TH	1	1245	1545	1	5	S	0	5	2	2	0
10/06/2022	2022 BR	TH	1	1245	1545	2	5	S	0	4	2	2	0
10/06/2022	2022 BR	TH	1	1245	1545	3	5	S	1	6	2	2	0
15/06/2022	2022 BR	TH	3	1030	1330	1	2	SW	0	5	2	2	0

Date	Season	Observer	VP	Survey Start Time	Survey Finish Time	Hour	Wind Speed	Wind Direction	Rain	Cloud Cover	Cloud Height	Visibility	Frost / Snow
15/06/2022	2022 BR	TH	3	1030	1330	2	1	SW	0	5	2	2	0
15/06/2022	2022 BR	TH	3	1030	1330	3	1	SW	0	6	2	2	0
15/06/2022	2022 BR	TH	3	1400	1530	1	1	SW	0	6	2	2	0
15/06/2022	2022 BR	TH	3	1400	1530	2	2	SW	0	6	2	2	0
15/06/2022	2022 BR	EB	4	0930	1230	1	3	SW	0	2	2	2	0
15/06/2022	2022 BR	EB	4	0930	1230	2	3	SW	0	3	2	2	0
15/06/2022	2022 BR	EB	4	0930	1230	3	2	SW	0	5	2	2	0
15/06/2022	2022 BR	EB	4	1300	1600	1	3	SW	0	6	2	2	0
15/06/2022	2022 BR	EB	4	1300	1600	2	3	SW	0	6	2	2	0
15/06/2022	2022 BR	EB	4	1300	1600	3	3	SW	0	7	2	2	0
17/06/2022	2022 BR	MW	3	0600	0900	1	7	SSW	0	8	2	2	0
17/06/2022	2022 BR	MW	3	0600	0900	2	7	SSW	4	8	2	2	0
17/06/2022	2022 BR	MW	3	0600	0900	3	7	SSW	4	8	2	2	0
17/06/2022	2022 BR	MW	3	0930	1230	1	7	SSW	4	8	2	2	0
17/06/2022	2022 BR	MW	3	0930	1230	2	7	SSW	4	8	2	2	0
17/06/2022	2022 BR	MW	3	0930	1230	3	7	SSW	4	8	2	2	0
22/06/2022	2022 BR	SK	3	0800	1100	3	4	NW	0	8	0	1	0
22/06/2022	2022 BR	SK	3	0800	1100	3	4	NW	0	8	0	1	0
22/06/2022	2022 BR	SK	3	0800	1100	3	4	NNW	0	8	1	2	0
22/06/2022	2022 BR	SK	3	1130	1430	3	4	NW	0	8	1	2	0
22/06/2022	2022 BR	SK	3	1130	1430	3	4	WNW	0	8	1	2	0
22/06/2022	2022 BR	SK	3	1130	1430	3	4	WNW	0	8	1	2	0
11/07/2022	2022 BR	EB	2	0930	1230	3	2	SW	0	8	2	2	0
11/07/2022	2022 BR	EB	2	0930	1230	3	2	SW	0	8	2	2	0
11/07/2022	2022 BR	EB	2	0930	1230	3	3	SW	0	8	2	2	0
11/07/2022	2022 BR	EB	2	1300	1600	3	3	SW	0	8	2	2	0
11/07/2022	2022 BR	EB	2	1300	1600	3	2	SW	0	8	2	2	0
11/07/2022	2022 BR	EB	2	1300	1600	3	2	SW	0	8	2	2	0
25/07/2022	2022 BR	EB	3	1015	1315	3	3	W	1	8	1	2	0
25/07/2022	2022 BR	EB	3	1015	1315	3	3	W	1	8	1	2	0
25/07/2022	2022 BR	EB	3	1015	1315	3	3	W	0	7	2	2	0
25/07/2022	2022 BR	EB	3	1345	1645	3	3	W	2	7	1	1	0
25/07/2022	2022 BR	EB	3	1345	1645	3	3	W	0	8	2	2	0
25/07/2022	2022 BR	EB	3	1345	1645	3	3	W	0	8	2	2	0
08/08/2022	2022 BR	TH	1	0930	1230	3	3	W	0	5	2	2	0
08/08/2022	2022 BR	TH	1	0930	1230	3	3	W	0	4	2	2	0
08/08/2022	2022 BR	TH	1	0930	1230	3	3	W	0	5	2	2	0
08/08/2022	2022 BR	TH	4	1245	1545	3	2	W	0	3	2	2	0
08/08/2022	2022 BR	TH	4	1245	1545	3	2	W	0	3	2	2	0
08/08/2022	2022 BR	TH	4	1245	1545	3	3	W	0	4	2	2	0
11/08/2022	2022 BR	TH	1	0815	1115	3	2	SW	0	0	2	2	0
11/08/2022	2022 BR	TH	1	0815	1115	3	2	SW	0	0	2	2	0

Date	Season	Observer	VP	Survey Start Time	Survey Finish Time	Hour	Wind Speed	Wind Direction	Rain	Cloud Cover	Cloud Height	Visibility	Frost / Snow
11/08/2022	2022 BR	TH	1	0815	1115	3	2	SW	0	0	2	2	0
11/08/2022	2022 BR	TH	1	1145	1445	3	3	W	0	0	2	2	0
11/08/2022	2022 BR	TH	1	1145	1445	3	3	W	0	0	2	2	0
11/08/2022	2022 BR	TH	1	1145	1445	3	3	W	0	1	2	2	0
11/08/2022	2022 BR	SK	2	0800	1100	3	2	W	0	0	2	2	0
11/08/2022	2022 BR	SK	2	0800	1100	3	3	W	0	0	2	2	0
11/08/2022	2022 BR	SK	2	0800	1100	3	3	W	0	0	2	2	0
11/08/2022	2022 BR	SK	2	1130	1430	3	3	W	0	0	2	2	0
11/08/2022	2022 BR	SK	2	1130	1430	3	4	W	0	0	2	2	0
11/08/2022	2022 BR	SK	2	1130	1430	3	4	W	0	0	2	2	0
15/08/2022	2022 BR	MW	2	1000	1300	3	3	ENE	0	8	2	2	0
15/08/2022	2022 BR	MW	2	1000	1300	3	4	E	2	8	2	2	0
15/08/2022	2022 BR	MW	2	1000	1300	3	4	ESE	4	8	2	2	0
15/08/2022	2022 BR	MW	3	0630	0930	3	3	NE	4	8	1	1	0
15/08/2022	2022 BR	MW	3	0630	0930	3	3	NE	0	8	2	2	0
15/08/2022	2022 BR	MW	3	0630	0930	3	3	E	2	8	2	2	0
15/08/2022	2022 BR	TH	4	0930	1230	3	2	NE	1	8	1	2	0
15/08/2022	2022 BR	TH	4	0930	1230	3	2	NE	1	8	2	2	0
15/08/2022	2022 BR	TH	4	0930	1230	3	3	NE	2	8	2	2	0
15/08/2022	2022 BR	TH	4	1300	1600	3	3	E	3	8	2	2	0
15/08/2022	2022 BR	TH	4	1300	1600	3	2	NE	3	8	2	2	0
15/08/2022	2022 BR	TH	4	1300	1600	3	2	NE	3	8	2	2	0
15/08/2022	2022 BR	TH	4	1300	1600	3	2	NE	1	8	2	2	0
26/08/2022	2022 BR	TH	2	0940	1240	3	3	SE	1	8	2	2	0
26/08/2022	2022 BR	TH	2	0940	1240	3	3	SE	0	8	2	2	0
26/08/2022	2022 BR	TH	2	0940	1240	3	3	S	0	7	2	2	0
26/08/2022	2022 BR	TH	2	1310	1610	3	4	S	0	5	2	2	0
26/08/2022	2022 BR	TH	2	1310	1610	3	4	S	0	7	2	2	0
26/08/2022	2022 BR	TH	2	1310	1610	3	3	S	0	8	2	2	0

A.2 Black Grouse Surveys

Table A-4 details survey dates and weather data recorded. Refer to **Annex B** for survey results.

Table A-4: Meteorological Conditions during Black Grouse Surveys (sorted chronologically)

Date	Survey Visit	Observer	Survey Start Time	Survey Finish Time	Survey Hour	Wind Speed	Wind Direction	Rain	Cloud Cover	Cloud Height	Visibility	Frost	Snow
29/04/2022	1	EB	0440	0710	1	2	S	0	0	2	2	1	0
29/04/2022	1	EB	0440	0710	2	2	S	0	0	2	2	1	0
29/04/2022	1	EB	0440	0710	3	2	S	0	0	2	2	0	0
29/04/2022	1	TH	0440	0710	1	1	NE	0	0	2	2	0	0
29/04/2022	1	TH	0440	0710	2	1	NE	0	0	2	2	0	0
29/04/2022	1	TH	0440	0710	3	1	NE	0	0	2	2	0	0
13/05/2022	2	MW	0400	0700	1	7	SW	0	8	2	2	0	0
13/05/2022	2	MW	0400	0700	2	7	SW	0	8	2	2	0	0
13/05/2022	2	MW	0400	0700	3	7	SW	0	8	2	2	0	0
27/05/2022	2	MW	0300	0600	1	6	W	4	8	2	2	0	0
27/05/2022	2	MW	0300	0600	2	7	WNW	4	8	2	2	0	0
27/05/2022	2	MW	0300	0600	3	7	WNW	3	8	2	2	0	0
29/04/2022	1	EB	0440	0710	1	2	S	0	0	2	2	1	0
29/04/2022	1	EB	0440	0710	2	2	S	0	0	2	2	1	0
29/04/2022	1	EB	0440	0710	3	2	S	0	0	2	2	0	0
29/04/2022	1	TH	0440	0710	1	1	NE	0	0	2	2	0	0
29/04/2022	1	TH	0440	0710	2	1	NE	0	0	2	2	0	0
29/04/2022	1	TH	0440	0710	3	1	NE	0	0	2	2	0	0
13/05/2022	2	MW	0400	0700	1	7	SW	0	8	2	2	0	0
13/05/2022	2	MW	0400	0700	2	7	SW	0	8	2	2	0	0
13/05/2022	2	MW	0400	0700	3	7	SW	0	8	2	2	0	0
27/05/2022	2	MW	0300	0600	1	6	W	4	8	2	2	0	0
27/05/2022	2	MW	0300	0600	2	7	WNW	4	8	2	2	0	0
27/05/2022	2	MW	0300	0600	3	7	WNW	3	8	2	2	0	0

A.3 Scarce Breeding Bird Surveys

Table A-5 details survey dates and weather data recorded.

Table A-5: Meteorological Conditions during Scarce Breeding Bird Surveys (sorted chronologically)

Date	Survey visit	Observer	Survey Start Time	Survey Finish Time	Survey Hour	Wind Speed	Wind Direction	Rain	Cloud Cover	Cloud Height	Visibility	Frost	Snow
28/04/2022	1	JR	0820	1420	1	2	S	0	4	2	2	0	0
28/04/2022	1	JR	0820	1420	2	1	S	0	6	2	2	0	0
28/04/2022	1	JR	0820	1420	3	1	ENE	0	6	2	2	0	0
28/04/2022	1	JR	0820	1420	4	1	E	0	6	2	2	0	0
28/04/2022	1	JR	0820	1420	5	1	SE	0	8	2	2	0	0
28/04/2022	1	JR	0820	1420	6	1	SE	0	8	2	2	0	0
28/04/2022	1	MW	0730	1330	1	1	ESE	0	3	2	2	0	0
28/04/2022	1	MW	0730	1330	2	2	ESE	0	3	2	2	0	0
28/04/2022	1	MW	0730	1330	3	3	ESE	0	3	2	2	0	0
28/04/2022	1	MW	0730	1330	4	3	ESE	0	4	2	2	0	0
28/04/2022	1	MW	0730	1330	5	4	ESE	0	3	2	2	0	0
28/04/2022	1	MW	0730	1330	6	4	ESE	0	3	2	2	0	0
10/05/2022	2	MW	0750	1350	1	6	SW	0	4	2	2	0	0
10/05/2022	2	MW	0750	1350	2	6	SW	0	5	2	2	0	0
10/05/2022	2	MW	0750	1350	3	7	SW	0	6	2	2	0	0
10/05/2022	2	MW	0750	1350	4	7	SW	0	5	2	2	0	0
10/05/2022	2	MW	0750	1350	5	7	SW	0	6	2	2	0	0
10/05/2022	2	MW	0750	1350	6	6	SW	0	5	2	2	0	0
13/05/2022	2	MW	0700	1000	1	7	SW	0	8	2	2	0	0
13/05/2022	2	MW	0700	1000	2	8	SW	0	8	2	2	0	0
13/05/2022	2	MW	0700	1000	3	8	SW	0	7	2	2	0	0
26/05/2022	2	MW	0730	1330	1	6	SW	2	8	1	2	0	0
26/05/2022	2	MW	0730	1330	2	6	SW	2	8	2	2	0	0
26/05/2022	2	MW	0730	1330	3	6	SW	2	8	2	2	0	0
26/05/2022	2	MW	0730	1330	4	6	SW	3	7	2	2	0	0
26/05/2022	2	MW	0730	1330	5	6	SW	3	8	2	2	0	0
26/05/2022	2	MW	0730	1330	6	6	SW	3	7	2	2	0	0
27/06/2022	3	JRM	0800	1530	1	3	SW	2	8	2	2	0	0
27/06/2022	3	JRM	0800	1530	2	3	WSW	3	7	2	2	0	0
27/06/2022	3	JRM	0800	1530	3	3	WSW	2	6	2	2	0	0
27/06/2022	3	JRM	0800	1530	4	3	WSW	2	6	2	2	0	0
27/06/2022	3	JRM	0800	1530	5	3	WSW	3	7	2	2	0	0
27/06/2022	3	JRM	0800	1530	6	3	WSW	3	8	2	2	0	0

Date	Survey visit	Observer	Survey Start Time	Survey Finish Time	Survey Hour	Wind Speed	Wind Direction	Rain	Cloud Cover	Cloud Height	Visibility	Frost	Snow
27/06/2022	3	JRM	0800	1530	7	3	WSW	2	8	2	2	0	0
27/06/2022	3	JRM	0800	1530	8	3	WSW	3	8	2	2	0	0
28/06/2022	3	JRM	0940	1410	1	5	SSE	2	8	1	2	0	0
28/06/2022	3	JRM	0940	1410	2	5	SSE	2	8	0	1	0	0
28/06/2022	3	JRM	0940	1410	3	5	SSE	3	8	0	1	0	0
28/06/2022	3	JRM	0940	1410	4	5	SSE	3	8	0	1	0	0
28/06/2022	3	JRM	0940	1410	5	5	SSE	3	8	0	1	0	0
15/07/2022	4	JRM	1000	1600	1	2	W	2	8	0	0	0	0
15/07/2022	4	JRM	1000	1600	2	2	W	3	8	0	0	0	0
15/07/2022	4	JRM	1000	1600	3	2	W	2	8	0	0	0	0
15/07/2022	4	JRM	1000	1600	4	3	WNW	2	8	1	1	0	0
15/07/2022	4	JRM	1000	1600	5	3	WNW	0	7	2	1	0	0
15/07/2022	4	JRM	1000	1600	6	3	WNW	0	6	2	1	0	0
15/07/2022	4	MW	0600	1200	1	3	SW	1	8	0	0	0	0
15/07/2022	4	MW	0600	1200	2	3	SW	1	8	1	1	0	0
15/07/2022	4	MW	0600	1200	3	4	SW	1	8	1	1	0	0
15/07/2022	4	MW	0600	1200	4	4	SW	1	8	1	1	0	0
15/07/2022	4	MW	0600	1200	5	4	SW	0	8	2	2	0	0
15/07/2022	4	MW	0600	1200	6	4	SW	0	7	2	2	0	0

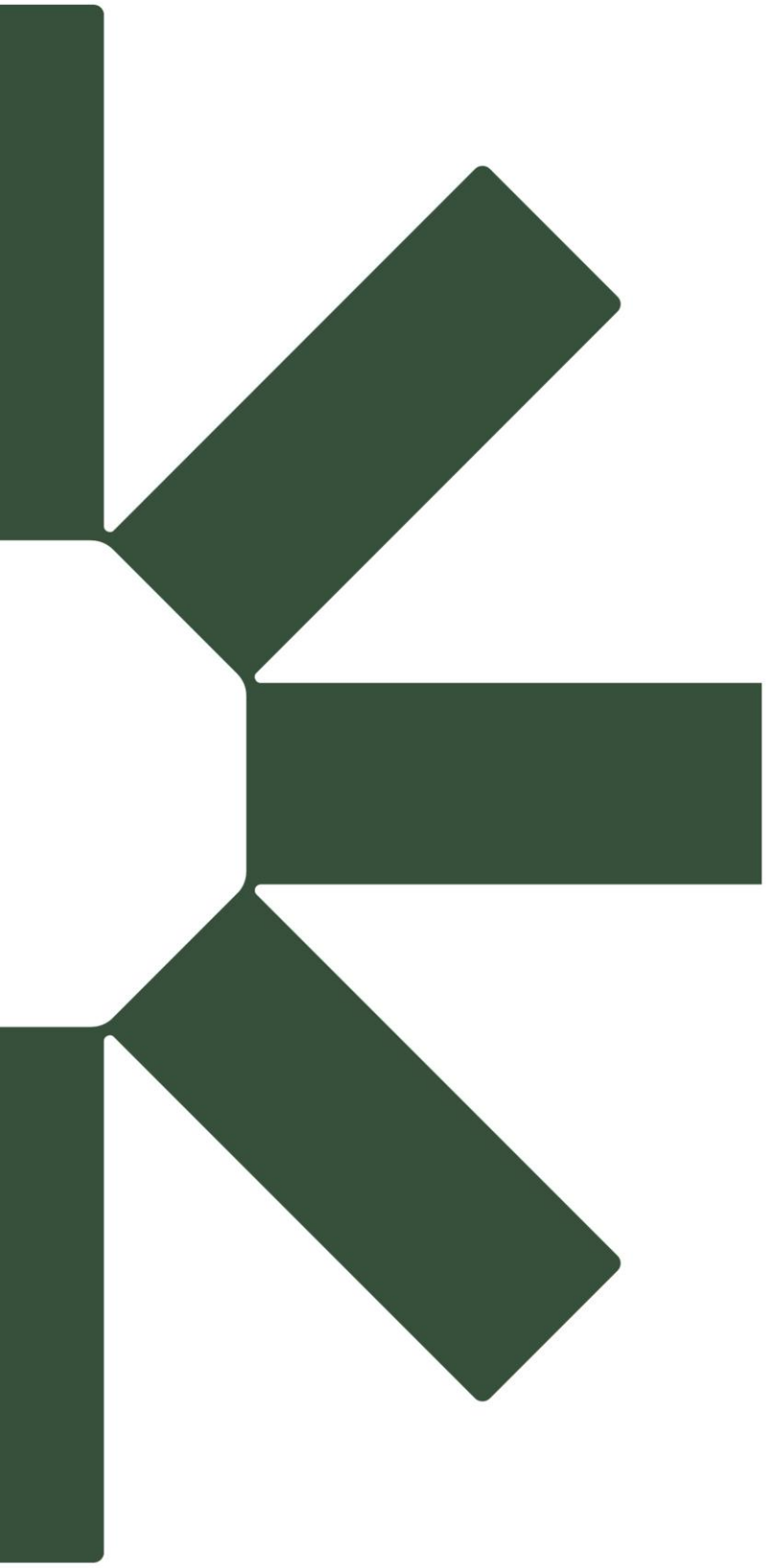
A.4 Moorland Breeding Bird Surveys

Table A-6 details survey dates and weather data recorded. Refer to **Annex B** for survey results.

Table A-6: Meteorological Conditions during Moorland Breeding Bird Surveys (sorted chronologically)

Date	Survey visit	Observer	Survey Start Time	Survey Finish Time	Survey Hour	Wind Speed	Wind Direction	Rain	Cloud Cover	Cloud Height	Visibility	Frost	Snow
28/04/2022	1	EB	0845	1045	1	2	S	0	8	2	2	0	0
28/04/2022	1	EB	0845	1045	2	2	S	0	8	2	2	0	0
28/04/2022	1	SK	0815	1415	1	2	SE	0	7	2	2	0	0
28/04/2022	1	SK	0815	1415	2	2	SE	0	7	2	2	0	0
28/04/2022	1	SK	0815	1415	3	2	SE	0	5	2	2	0	0
28/04/2022	1	SK	0815	1415	4	2	SE	0	8	2	2	0	0
28/04/2022	1	SK	0815	1415	5	2	SE	0	8	2	2	0	0
28/04/2022	1	SK	0815	1415	6	2	SE	0	8	2	2	0	0
28/04/2022	1	TH	0830	1030	1	1	S	0	1	2	2	0	0
28/04/2022	1	TH	0830	1030	2	1	SE	0	1	2	2	0	0
09/05/2022	2	EB	0930	1500	1	6	SE	0	8	2	2	0	0

Date	Survey visit	Observer	Survey Start Time	Survey Finish Time	Survey Hour	Wind Speed	Wind Direction	Rain	Cloud Cover	Cloud Height	Visibility	Frost	Snow
09/05/2022	2	EB	0930	1500	2	5	SE	0	8	2	2	0	0
09/05/2022	2	EB	0930	1500	3	4	SE	1	8	2	2	0	0
09/05/2022	2	EB	0930	1500	4	5	SE	0	8	2	2	0	0
09/05/2022	2	EB	0930	1500	5	5	SE	1	8	1	2	0	0
09/05/2022	2	EB	0930	1500	6	6	SE	3	8	1	1	0	0
10/05/2022	2	EB	0915	1215	1	6	W	0	7	2	2	0	0
10/05/2022	2	EB	0915	1215	2	5	W	2	8	1	2	0	0
10/05/2022	2	EB	0915	1215	3	5	W	0	7	2	2	0	0
28/06/2022	3	SK	0830	1430	1	5	SSE	2	8	1	2	0	0
28/06/2022	3	SK	0830	1430	2	5	SSE	3	8	0	1	0	0
28/06/2022	3	SK	0830	1430	3	6	SSE	4	8	0	1	0	0
28/06/2022	3	SK	0830	1430	4	6	SSE	3	8	0	2	0	0
28/06/2022	3	SK	0830	1430	5	6	SSE	3	8	0	2	0	0
28/06/2022	3	SK	0830	1430	6	6	SSE	3	8	1	2	0	0
09/07/2022	4	AM	1020	1630	1	3	W	0	5	2	2	0	0
09/07/2022	4	AM	1020	1630	2	3	W	0	5	2	2	0	0
09/07/2022	4	AM	1020	1630	3	3	W	0	5	2	2	0	0
09/07/2022	4	AM	1020	1630	4	3	W	0	4	2	2	0	0
09/07/2022	4	AM	1020	1630	5	3	W	0	4	2	2	0	0
09/07/2022	4	AM	1020	1630	6	3	W	0	4	2	2	0	0
23/07/2022	4	AM	0900	1430	1	3	S	0	8	2	2	0	0
23/07/2022	4	AM	0900	1430	2	3	SSE	2	8	2	2	0	0
23/07/2022	4	AM	0900	1430	3	3	SSE	2	8	2	2	0	0
23/07/2022	4	AM	0900	1430	4	3	SSE	3	8	1	2	0	0
23/07/2022	4	AM	0900	1430	5	3	SSE	4	8	1	2	0	0
23/07/2022	4	AM	0900	1430	6	3	SSE	4	8	1	2	0	0



Making Sustainability Happen

Annex B

Hagshaw Hill III Energy Project

Baseline Ornithology Surveys

Technical Appendix 8.1 Annex B

SLR Project No.: 413.V00478.00XM2

Client Name: 3R Energy

30 March 2026

Revision: 2

Annex B Ornithological Survey Results

B.1 Flight Activity Records: Target Species

All flights of target species (refer to **Section 2** of **Technical Appendix 8.1** which defines target species) within the turbine area and the surrounding area were mapped and are detailed in **Table B-1**.

Table B-1: Details of Target Species Recorded during Flight Activity Surveys (sorted chronologically)

Date	VP	Observer	Flight Start Time	Species	No. of Birds	Duration (s)	Inside CRAA (seconds)					Outside CRAA (seconds)				
							0-20m	21-40m	41-100m	101-150m	>150m	0-20m	21-40m	41-100m	101-150m	>150m
29/04/2022	3	EB	0716	Greylag goose	2	45	0	25.03215	0	0	0	0	19.96785	0	0	0
10/05/2022	1	EB	1355	Herring gull	2	105	0	0	0	0	0	0	0	105	0	0
11/05/2022	4	EB	0934	Curlew	1	50	0	2.222222	3.333333	0	0	0	17.77778	26.66667	0	0
11/05/2022	4	EB	1002	Curlew	1	30	24.62203	0	0	0	0	5.37797	0	0	0	0
11/05/2022	4	EB	1344	Curlew	1	45	0	36.4604	0	0	0	0	8.539604	0	0	0
31/05/2022	4	SK	1003	Curlew	1	40	0	27.67025	0	0	0	0	12.32975	0	0	0
31/05/2022	4	SK	1057	Curlew	2	53	8	45	0	0	0	0	0	0	0	0
31/05/2022	4	SK	1153	Curlew	2	37	0	0	0	0	0	7	30	0	0	0
25/07/2022	3	EB	1019	Snipe	1	12	12	0	0	0	0	0	0	0	0	0

B.2 Breeding Waders

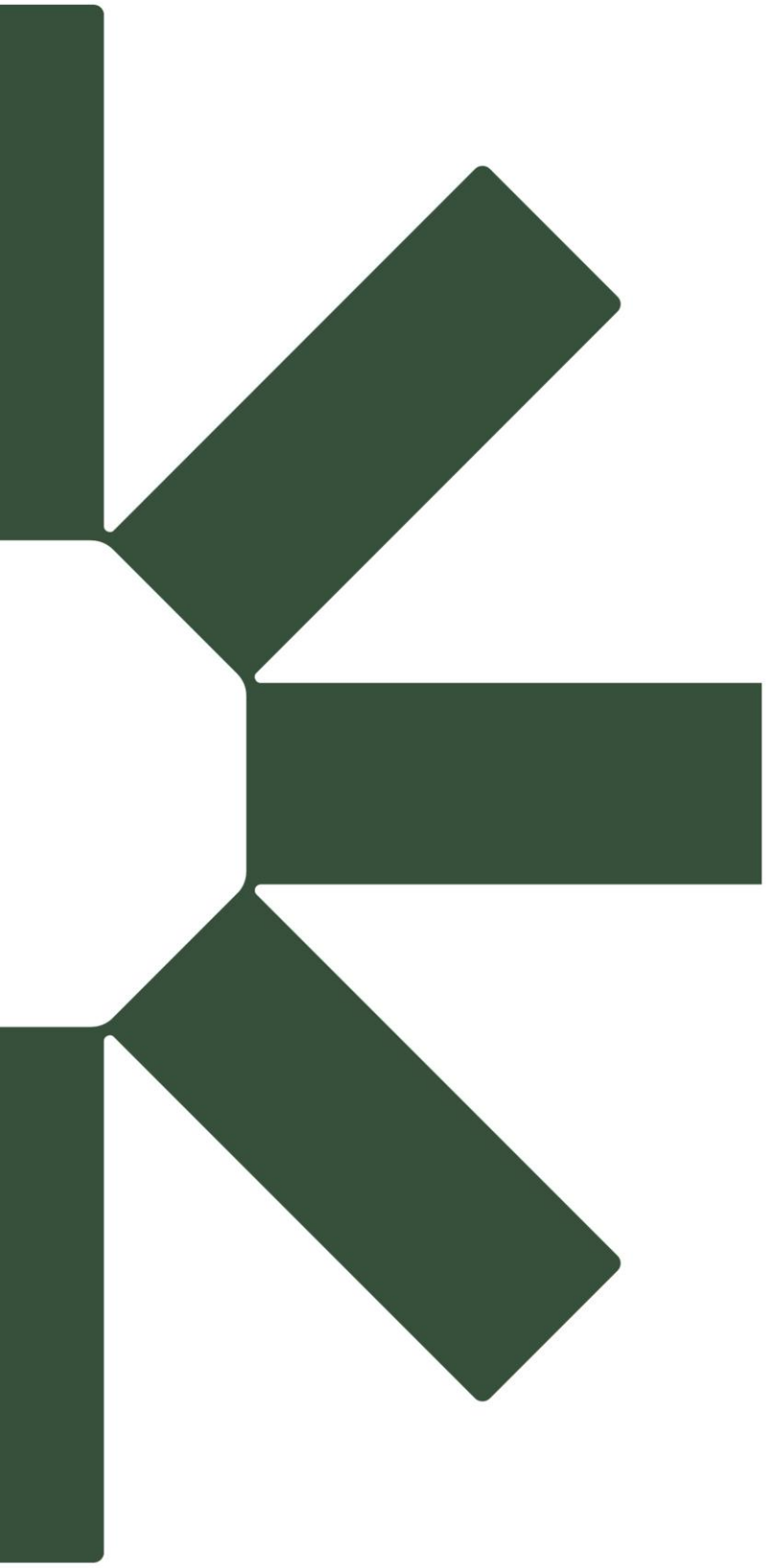
Table B-2 details all target wader activity recorded during the breeding seasons.

Table B-2: Wader Activity Records

	Visit	Observer	Species	Number Recorded	Notes
28/04/2022	1	EB	Curlew	1	Singing.
28/04/2022	1	EB	Curlew	1	Singing.
28/04/2022	1	EB	Curlew	1	Singing.
28/04/2022	1	EB	Snipe	1	Calling.
28/04/2022	1	EB	Snipe	1	Calling.
28/04/2022	1	EB	Snipe	1	Calling.
28/04/2022	1	SK	Curlew	2	
28/04/2022	1	SK	Curlew	1	
28/04/2022	1	SK	Curlew	1	
28/04/2022	1	SK	Curlew	1	
28/04/2022	1	SK	Curlew	1	
28/04/2022	1	SK	Curlew	1	
28/04/2022	1	SK	Curlew	1	
28/04/2022	1	SK	Curlew	1	
28/04/2022	1	SK	Golden plover	15	
28/04/2022	1	SK	Snipe	1	
28/04/2022	1	SK	Snipe	1	
28/04/2022	1	SK	Snipe	1	
28/04/2022	1	SK	Snipe	1	
28/04/2022	1	JR	Common sandpiper	2	Pair; calling.
28/04/2022	1	JR	Common sandpiper	2	Pair; calling.
28/04/2022	1	JR	Curlew	2	Pair; calling.
28/04/2022	1	JR	Oystercatcher	2	Pair; calling.
28/04/2022	1	JR	Oystercatcher	2	Pair; nesting.
28/04/2022	1	JR	Oystercatcher	2	Pair.
28/04/2022	1	JR	Oystercatcher	2	Pair.
28/04/2022	1	JR	Snipe	1	Calling.
28/04/2022	1	MW	Curlew	4	
28/04/2022	1	MW	Oystercatcher	2	
28/04/2022	1	MW	Oystercatcher	2	
28/04/2022	1	MW	Snipe	1	
28/04/2022	1	MW	Snipe	1	

Date	Survey Visit	Observer	Species	Number Recorded	Notes
29/04/2022	-	EB	Curlew	-	Heard only.
29/04/2022	-	EB	Snipe	-	Heard only.
29/04/2022	-	TH	Curlew	1	Heard only near Podowrin Burn.
29/04/2022	-	TH	Snipe	1	Heard only near Podowrin Burn.
02/05/2022	-	EB	Curlew	-	Heard only.
09/05/2022	2	EB	Curlew	1	Singing.
09/05/2022	2	EB	Curlew	1	Singing.
09/05/2022	2	EB	Curlew	1	Calling.
09/05/2022	2	EB	Snipe	1	Calling.
10/05/2022	2	EB	Curlew	1	Singing.
10/05/2022	2	EB	Curlew	1	
10/05/2022	2	EB	Snipe	1	Calling.
10/05/2022	2	MW	Common sandpiper	1	
10/05/2022	2	MW	Curlew	2	
10/05/2022	2	MW	Oystercatcher	1	
10/05/2022	2	MW	Oystercatcher	1	
10/05/2022	2	MW	Oystercatcher	1	
13/05/2022	2	MW	Snipe	-	Heard only.
13/05/2022	2	MW	Common sandpiper	1	
13/05/2022	2	MW	Common sandpiper	1	
13/05/2022	2	MW	Common sandpiper	1	
13/05/2022	2	MW	Common sandpiper	1	
13/05/2022	2	MW	Curlew	1	
13/05/2022	2	MW	Curlew	1	
13/05/2022	2	MW	Oystercatcher	1	
13/05/2022	2	MW	Oystercatcher	1	
13/05/2022	2	MW	Oystercatcher	1	
13/05/2022	2	MW	Oystercatcher	2	
13/05/2022	2	MW	Oystercatcher	2	
13/05/2022	2	MW	Snipe	1	
13/05/2022	2	MW	Snipe	1	
13/05/2022	2	MW	Snipe	1	
13/05/2022	2	MW	Snipe	1	
24/05/2022	-	TH	Curlew	-	Heard only; in field south of survey location.

Date	Survey Visit	Observer	Species	Number Recorded	Notes
31/05/2022	-	TH	Curlew	1	Heard only near Robshill Burn; singing.
15/06/2022	-	EB	Curlew	-	Heard only.
22/06/2022	-	SK	Curlew	-	Heard only.
27/06/2022	3	JRM	Oystercatcher	2	Pair on roof of building near site entrance.
28/06/2022	3	SK	Curlew	2	Singing.
28/06/2022	3	SK	Curlew	2	Singing.
28/06/2022	3	SK	Curlew	2	Singing.
28/06/2022	3	SK	Curlew	2	Singing.
28/06/2022	3	SK	Curlew	2	Singing.
09/07/2022	4	AM	Curlew	2	In flight; pair.
25/07/2022	-	EB	Curlew	-	Heard only.



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