

ANNEX C ORNITHOLOGICAL SURVEY EFFORT & GENERAL INFORMATION

Table C-1 shows the system used for recording weather conditions on all the surveys detailed in sections C1 to C6 below.

Table C-1 Key to meteorological conditions recorded during all surveys

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

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

C.1 Flight Activity Surveys

Flight activity surveys were undertaken during the 2015 breeding season and 2014/2015 non-breeding season to record the presence and activity of target and secondary species. Details of the flight activity surveys undertaken across each Vantage Point (VP) location are supplied in Table C-2 (see Technical Appendix 8.1, Table 8-4 for a summary of hours surveyed at each VP per season) and the associated weather data recorded is detailed in Table C-3. See Annex B for the survey methodology and Annex D for the survey results.

Table C-2 Summary of flight activity surveys undertaken at Douglas West by Dunnock Environmental Services

Date	Season	V P	Observer	Survey start time	Survey finish time	No. hours ¹ surveyed
27/09/2014	NBR 2014/2015	2	AT	1230	1530	3
27/09/2014	NBR 2014/2015	2	SG	1550	1850	3

Date	Season	V P	Observe r	Surve y start time	Surve y finish time	No. hours ¹ surveye d
27/09/2014	NBR 2014/2015	3	SG	1200	1500	3
28/09/2014	NBR 2014/2015	2	SP	1605	1905	3
28/09/2014	NBR 2014/2015	3	AT	1600	1900	3
29/09/2014	NBR 2014/2015	3	SP	1050	1350	3
12/10/2014	NBR 2014/2015	2	AT	1623	1923	3
12/10/2014	NBR 2014/2015	3	AT	0650	0950	3
12/10/2014	NBR 2014/2015	3	SP	1620	1920	3
13/10/2014	NBR 2014/2015	2	SP	0640	0940	3
24/10/2014	NBR 2014/2015	2	SP	0650	0950	3

Date	Season	V P	Observe r	Surve y start time	Surve y finish time	No. hours ¹ surveye d
24/10/2014	NBR 2014/2015	2	SP	1030	1330	3
24/10/2014	NBR 2014/2015	3	SP	1545	1845	3
28/10/2014	NBR 2014/2015	3	SP	1445	1745	3
29/10/2014	NBR 2014/2015	2	SP	0640	0940	3
29/10/2014	NBR 2014/2015	2	SP	1440	1740	3
29/10/2014	NBR 2014/2015	3	AT	0616	0916	3
29/10/2014	NBR 2014/2015	3	SP	1035	1335	3
03/11/2014	NBR 2014/2015	3	SP	1425	1725	3
04/11/2014	NBR 2014/2015	2	SP	0635	0935	3

Date	Season	V P	Observe r	Surve y start time	Surve y finish time	No. hours ¹ surveye d
04/11/2014	NBR 2014/2015	2	SP	1430	1730	3
05/11/2014	NBR 2014/2015	3	SP	0630	0930	3
09/11/2014	NBR 2014/2015	2	AT	0638	0938	3
18/11/2014	NBR 2014/2015	2	SP	1400	1700	3
18/11/2014	NBR 2014/2015	3	SP	0650	0950	3
19/11/2014	NBR 2014/2015	3	AT	1419	1719	3
22/11/2014	NBR 2014/2015	3	AT	0706	0806	1
22/11/2014	NBR 2014/2015	3	AT	1222	1522	3
26/11/2014	NBR 2014/2015	2	SP	0900	1200	3

Date	Season	V P	Observe r	Surve y start time	Surve y finish time	No. hours ¹ surveye d
26/11/2014	NBR 2014/2015	2	SP	1340	1655	3
27/11/2014	NBR 2014/2015	3	SP	0715	1015	3
05/12/2014	NBR 2014/2015	2	SP	0735	1035	3
05/12/2014	NBR 2014/2015	3	SP	1350	1650	3
23/12/2014	NBR 2014/2015	2	SP	0800	1100	3
23/12/2014	NBR 2014/2015	3	SP	1200	1500	3
30/12/2014	NBR 2014/2015	2	AT	1306	1606	3
30/12/2014	NBR 2014/2015	3	AT	0850	1150	3
03/01/2015	NBR 2014/2015	2	AT	0830	1130	3

Date	Season	V P	Observe r	Surve y start time	Surve y finish time	No. hours ¹ surveye d
03/01/2015	NBR 2014/2015	3	AT	1305	1605	3
24/01/2015	NBR 2014/2015	2	AT	1325	1350	0.4
24/01/2015	NBR 2014/2015	2	AT	1415	1650	2.6
24/01/2015	NBR 2014/2015	3	AT	0845	1145	3
04/02/2015	NBR 2014/2015	2	SP	0915	1215	3
04/02/2015	NBR 2014/2015	3	SP	1335	1635	3
18/02/2015	NBR 2014/2015	2	SP	1310	1610	3
18/02/2015	NBR 2014/2015	3	SP	0835	1135	2.32 ²
27/02/2015	NBR 2014/2015	2	SP	0645	0945	3

Date	Season	V P	Observe r	Surve y start time	Surve y finish time	No. hours ¹ surveye d
27/02/2015	NBR 2014/2015	3	SP	1100	1400	3
08/03/2015	NBR 2014/2015	2	SP	1025	1325	3
08/03/2015	NBR 2014/2015	3	SP	0620	0920	3
13/03/2015	NBR 2014/2015	2	SP	0605	0905	3
13/03/2015	NBR 2014/2015	3	SP	1615	1915	2.52
16/03/2015	NBR 2014/2015	2	AM	1010	1310	3
16/03/2015	NBR 2014/2015	2	AT	1450	1750	3
16/03/2015	NBR 2014/2015	3	AT	1040	1340	3
16/03/2015	NBR 2014/2015	3	AM	1410	1710	3

² Three hours surveyed but time lost to category 0 visibility (i.e. > 1 km visibility).

Date	Season	V P	Observe r	Surve y start time	Surve y finish time	No. hours ¹ surveye d
27/03/2015	NBR 2014/2015	2	SP	1640	1940	2.52
27/03/2015	NBR 2014/2015	3	SP	0505	0805	3
02/04/2015	BR 2015	2	SP	0545	0845	3
02/04/2015	BR 2015	3	SP	1745	2045	3
07/04/2015	BR 2015	2	AT	0530	0830	3
07/04/2015	BR 2015	3	AT	1125	1425	3
09/04/2015	BR 2015	3	AT	1320	1632	3
09/04/2015	BR 2015	2	AT	1810	2110	3
16/04/2015	BR 2015	3	SP	0505	0805	3
16/04/2015	BR 2015	2	SP	0945	1245	3
21/04/2015	BR 2015	2	AT	1050	1350	3
23/04/2015	BR 2015	2	AT	0550	0850	3
23/04/2015	BR 2015	3	AT	1045	1345	3

Date	Season	V P	Observe r	Surve y start time	Surve y finish time	No. hours ¹ surveye d
30/04/2015	BR 2015	3	AT	0710	1010	3
30/04/2015	BR 2015	2	AT	1215	1515	3
01/05/2015	BR 2015	2	AT	0920	1220	3
01/05/2015	BR 2015	3	AT	1350	1650	3
06/05/2015	BR 2015	2	SP	1855	2155	3
06/05/2015	BR 2015	3	SP	1500	1800	3
08/05/2015	BR 2015	2	AT	1050	1350	2
20/05/2015	BR 2015	2	SP	0500	0800	3
20/05/2015	BR 2015	3	SP	1830	2130	3
26/05/2015	BR 2015	2	SP	0450	0750	3
26/05/2015	BR 2015	3	SP	0905	1205	3
27/05/2015	BR 2015	2	SP	1930	2230	3
27/05/2015	BR 2015	3	SP	1520	1820	3
30/05/2015	BR 2015	2	SP	0825	1125	3

Date	Season	V P	Observe r	Surve y start time	Surve y finish time	No. hours ¹ surveye d
30/05/2015	BR 2015	3	SP	1240	1540	3
19/06/2015	BR 2015	3	AT	1540	1840	3
23/06/2015	BR 2015	2	AT	0655	0955	3
23/06/2015	BR 2015	3	AT	1105	1405	3
25/06/2015	BR 2015	2	AT	1145	1445	3
09/07/2015	BR 2015	2	AT	0845	1145	3
14/07/2015	BR 2015	3	AT	1235	1535	3
26/07/2015	BR 2015	3	AT	0540	0840	3
26/07/2015	BR 2015	2	AT	1000	1300	3
12/08/2015	BR 2015	3	AT	0640	0940	3
12/08/2015	BR 2015	2	AT	1055	1355	3
24/08/2015	BR 2015	3	AT	0700	1000	3
24/08/2015	BR 2015	2	AT	1105	1405	3

Table C-3 Meteorological conditions during flight activity surveys at Douglas West by Dunnock Environmental Services

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
27/09/2014	2	SG	1550	1850	1	4	SW	0	8	2	2	0	0
27/09/2014	2	SG	1550	1850	2	3	SW	0	4	2	2	0	0
27/09/2014	2	SG	1550	1850	3	3	SW	0	3	2	2	0	0
27/09/2014	3	SG	1200	1500	1	4	SW	0	7	2	2	0	0
27/09/2014	3	SG	1200	1500	2	4	SW	0	6	2	2	0	0
27/09/2014	3	SG	1200	1500	3	4	SW	0	6	2	2	0	0
27/09/2014	2	AT	1230	1530	1	4	SW	0	8	2	2	0	0
27/09/2014	2	AT	1230	1530	2	4	SW	0	7	2	2	0	0
27/09/2014	2	AT	1230	1530	3	4	W	0	5	2	2	0	0
28/09/2014	2	SP	1605	1905	1	3	SSW	0	6	2	2	0	0
28/09/2014	2	SP	1605	1905	2	3	SSW	2	7	2	2	0	0
28/09/2014	2	SP	1605	1905	3	2	SSW	0	7	2	2	0	0
29/09/2014	3	SP	1050	1350	1	3	S	0	8	2	2	0	0
29/09/2014	3	SP	1050	1350	2	2	SSE	0	8	2	2	0	0
29/09/2014	3	SP	1050	1350	3	2	S	0	8	2	2	0	0
28/09/2014	3	AT	1600	1900	1	2	SW	0	7	2	2	0	0
28/09/2014	3	AT	1600	1900	2	2	SW	0	7	2	2	0	0
28/09/2014	3	AT	1600	1900	3	2	SW	1	7	2	2	0	0
12/10/2014	3	AT	0650	0950	1	1	SW	0	7	2	2	0	0
12/10/2014	3	AT	0650	0950	2	2	SW	0	4	2	2	0	0
12/10/2014	3	AT	0650	0950	3	1	SW	0	5	1	2	0	0
12/10/2014	2	AT	1623	1923	1	1	SW	0	6	2	2	0	0
12/10/2014	2	AT	1623	1923	2	1	SW	0	4	2	2	0	0
12/10/2014	2	AT	1623	1923	3	1	SW	0	1	2	2	0	0
13/10/2014	2	SP	0640	0940	1	1	N	0	8	1	1	0	0

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
13/10/2014	2	SP	0640	0940	2	1	NE	0	7	1	1	0	0
13/10/2014	2	SP	0640	0940	3	3	NE	0	6	1	2	0	0
12/10/2014	3	SP	1620	1920	1	1	N	2	6	2	2	0	0
12/10/2014	3	SP	1620	1920	2	1	NW	0	3	2	2	0	0
12/10/2014	3	SP	1620	1920	3	1	NW	0	1	2	2	0	0
24/10/2014	2	SP	0650	0950	1	2	SW	3	4	1	1	0	0
24/10/2014	2	SP	0650	0950	2	3	SW	2	6	2	2	0	0
24/10/2014	2	SP	0650	0950	3	2	SW	2	5	2	2	0	0
24/10/2014	2	SP	1030	1330	1	4	SW	0	5	2	2	0	0
24/10/2014	2	SP	1030	1330	2	4	SW	0	5	2	2	0	0
24/10/2014	2	SP	1030	1330	3	4	SW	0	5	2	2	0	0
24/10/2015	3	SP	1545	1845	1	4	SW	3	7	2	2	0	0
24/10/2015	3	SP	1545	1845	2	3	SW	3	5	2	2	0	0
24/10/2015	3	SP	1545	1845	3	2	SW	3	3	2	2	0	0
28/10/2014	3	SP	1445	1745	1	3	NW	0	4	2	2	0	0
28/10/2014	3	SP	1445	1745	2	2	NW	0	2	2	2	0	0
28/10/2014	3	SP	1445	1745	3	2	NW	0	2	2	2	0	0
29/10/2014	3	AT	0616	0916	1	1	W	0	6	2	2	0	0
29/10/2014	3	AT	0616	0916	2	1	W	0	7	2	2	0	0
29/10/2014	3	AT	0616	0916	3	1	W	0	7	2	2	0	0
29/10/2014	2	SP	0640	0940	1	1	-	0	6	2	2	1	0
29/10/2014	2	SP	0640	0940	2	2	SE	0	7	2	2	0	0
29/10/2014	2	SP	0640	0940	3	1	-	0	5	2	2	0	0
29/10/2014	3	SP	1035	1335	1	1	-	0	6	2	2	0	0
29/10/2014	3	SP	1035	1335	2	0	-	0	3	2	2	0	0
29/10/2014	3	SP	1035	1335	3	0	-	0	3	2	2	0	0
29/10/2014	2	SP	1440	1740	1	0	-	0	4	2	2	0	0

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
29/10/2014	2	SP	1440	1740	2	0	-	0	5	2	2	0	0
29/10/2014	2	SP	1440	1740	3	1	-	0	4	2	2	0	0
03/11/2014	3	SP	1425	1725	1	2	SW	4	8	1	2	0	0
03/11/2014	3	SP	1425	1725	2	2	SW	2	8	2	2	0	0
03/11/2014	3	SP	1425	1725	3	2	SW	0	8	2	2	0	0
04/11/2014	2	SP	0635	0935	1	0	-	1	7	2	2	0	0
04/11/2014	2	SP	0635	0935	2	1	N	1	8	1	2	0	0
04/11/2014	2	SP	0635	0935	3	2	N	4	8	1	2	0	0
04/11/2014	2	SP	1430	1730	1	3	N	2	7	2	2	0	0
04/11/2014	2	SP	1430	1730	2	3	N	2	6	2	2	0	0
04/11/2014	2	SP	1430	1730	3	2	N	0	6	2	2	0	0
05/11/2014	3	SP	0630	0930	1	2	N	0	1	2	2	1	0
05/11/2014	3	SP	0630	0930	2	2	N	0	1	2	2	1	0
05/11/2014	3	SP	0630	0930	3	1	N	0	1	2	2	1	0
09/11/2014	2	AT	0638	0938	1	2	SE	0	4	2	2	0	0
09/11/2014	2	AT	0638	0938	2	3	SE	0	4	2	2	0	0
09/11/2014	2	AT	0638	0938	3	1	NE	0	6	2	2	0	0
18/11/2014	3	SP	0650	0950	1	2	E	0	4	2	2	0	0
18/11/2014	3	SP	0650	0950	2	2	E	0	6	2	2	0	0
18/11/2014	3	SP	0650	0950	3	2	E	0	3	2	2	0	0
18/11/2014	2	SP	1400	1700	1	3	NE	0	2	2	2	0	0
18/11/2014	2	SP	1400	1700	2	3	E	0	1	2	2	0	0
18/11/2014	2	SP	1400	1700	3	0	-	0	2	2	2	0	0
19/11/2014	3	AT	1419	1719	1	1	SE	0	3	2	2	0	0
19/11/2014	3	AT	1419	1719	2	0	S	0	2	2	2	0	0
19/11/2014	3	AT	1419	1719	3	2	SE	0	2	2	2	0	0
22/11/2014	3	AT	0706	0806	1	2	SE	1	8	0	1	0	0

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
22/11/2014	3	AT	1222	1522	1	3	SSW	0	4	2	2	0	0
22/11/2014	3	AT	1222	1522	2	2	SW	0	3	2	2	0	0
22/11/2014	3	AT	1222	1522	3	2	W	0	5	2	2	0	0
26/11/2014	2	SP	0900	1200	1	0	-	0	8	2	2	0	0
26/11/2014	2	SP	0900	1200	2	0	-	0	7	2	2	0	0
26/11/2014	2	SP	0900	1200	3	0	-	0	8	2	2	0	0
26/11/2014	2	SP	1340	1655	1	1	NW	0	8	1	2	0	0
26/11/2014	2	SP	1340	1655	2	1	NW	0	8	1	2	0	0
26/11/2014	2	SP	1340	1655	3	1	NW	0	8	1	1	0	0
27/11/2014	3	SP	0715	1015	1	1	SE	1	8	1	1	0	0
27/11/2014	3	SP	0715	1015	2	1	SE	1	8	1	2	0	0
27/11/2014	3	SP	0715	1015	3	1	SE	1	8	1	1	0	0
05/12/2014	2	SP	0735	1035	1	2	W	0	3	2	2	0	0
05/12/2014	2	SP	0735	1035	2	2	W	0	3	2	2	0	0
05/12/2014	2	SP	0735	1035	3	3	W	6	4	2	2	0	0
05/12/2014	3	SP	1350	1650	1	3	W	0	2	2	2	0	0
05/12/2014	3	SP	1350	1650	2	2	W	0	2	2	2	0	0
05/12/2014	3	SP	1350	1650	3	2	W	0	2	2	2	0	0
23/12/2014	2	SP	0800	1100	1	4	W	5	8	1	1	0	0
23/12/2014	2	SP	0800	1100	2	4	W	5	8	1	1	0	0
23/12/2014	2	SP	0800	1100	3	4	W	4	8	1	2	0	0
23/12/2014	3	SP	1200	1500	1	3	W	3	8	1	2	0	0
23/12/2014	3	SP	1200	1500	2	2	NW	3	8	1	2	0	0
23/12/2014	3	SP	1200	1500	3	2	NW	1	8	1	2	0	0
30/12/2014	3	AT	0850	1150	1	2	SW	0	6	2	2	0	0
30/12/2014	3	AT	0850	1150	2	3	SW	0	5	2	2	0	0
30/12/2014	3	AT	0850	1150	3	3	SW	0	5	2	2	0	0

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
03/01/2015	2	AT	0830	1130	1	1	WNW	0	7	2	2	0	0
03/01/2015	2	AT	0830	1130	2	1	W	0	7	2	2	0	0
03/01/2015	2	AT	0830	1130	3	1	WSW	0	3	2	2	0	0
03/01/2015	3	AT	1305	1605	1	2	NW	0	0	2	2	0	0
03/01/2015	3	AT	1305	1605	2	2	NW	0	1	2	2	0	0
03/01/2015	3	AT	1305	1605	3	2	NW	0	1	2	2	0	0
24/01/2015	3	AT	0845	1145	1	3	NW	6	4	2	2	1	2
24/01/2015	3	AT	0845	1145	2	3	W	0	2	2	2	1	2
24/01/2015	3	AT	0845	1145	3	3	W	6	3	2	2	1	2
24/01/2015	2	AT	1325	1350	0.5	2	W	4	6	2	2	1	2
24/01/2015	2	AT	1415	1650	1	3	W	0	8	2	2	1	2
24/01/2015	2	AT	1415	1650	2	3	SSW	0	7	2	2	1	2
24/01/2015	2	AT	1415	1650	2.5	3	SSW	0	7	2	2	1	2
04/02/2015	2	SP	0915	1215	1	2	NW	0	3	2	2	1	2
04/02/2015	2	SP	0915	1215	2	1	NW	0	4	2	2	1	2
04/02/2015	2	SP	0915	1215	3	2	NW	0	4	2	2	1	2
04/02/2015	3	SP	1335	1635	1	3	NW	0	6	2	2	1	2
04/02/2015	3	SP	1335	1635	2	2	NW	0	7	2	2	1	2
04/02/2015	3	SP	1335	1635	3	3	NW	0	7	2	2	1	2
18/02/2015	3	SP	0835	1135	1	4	SW	1	8	1	1	0	0
18/02/2015	3	SP	0835	1135	2	4	SW	2	8	1	2	0	0
18/02/2015	3	SP	0835	1135	3	4	SW	2	8	1	1	0	0
18/02/2015	2	SP	1310	1610	1	5	S	0	8	1	2	0	0
18/02/2015	2	SP	1310	1610	2	5	S	0	4	2	2	0	0
18/02/2015	2	SP	1310	1610	3	4	S	0	5	2	2	0	0
27/02/2015	3	SP	0645	0945	1	4	SW	6	8	1	2	0	2
27/02/2015	3	SP	0645	0945	2	4	SW	6	7	2	2	0	2

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
27/02/2015	3	SP	0645	0945	3	4	SW	6	6	2	2	0	2
27/02/2015	3	SP	1100	1400	1	4	SW	6	8	2	2	0	1
27/02/2015	3	SP	1100	1400	2	4	SW	6	8	2	2	0	1
27/02/2015	3	SP	1100	1400	3	4	SW	0	6	2	2	0	1
08/03/2015	3	SP	0620	0920	1	5	W	0	8	2	2	0	0
08/03/2015	3	SP	0620	0920	2	5	W	0	6	2	2	0	0
08/03/2015	3	SP	0620	0920	3	4	W	0	5	2	2	0	0
08/03/2015	2	SP	1025	1325	1	5	W	4	4	2	2	0	0
08/03/2015	2	SP	1025	1325	2	4	NW	4	4	2	2	0	0
08/03/2015	2	SP	1025	1325	3	4	NW	0	5	2	2	0	0
13/03/2015	2	SP	0605	0905	1	2	NW	0	7	2	2	0	0
13/03/2015	2	SP	0605	0905	2	2	NW	0	7	2	2	0	0
13/03/2015	2	SP	0605	0905	3	1	NW	0	7	2	2	0	0
13/03/2015	3	SP	1615	1915	1	3	NE	1	8	1	1	0	0
13/03/2015	3	SP	1615	1915	2	3	NE	1	8	1	1	0	0
13/03/2015	3	SP	1615	1915	3	2	NE	1	8	1	1	0	0
16/03/2015	2	AM	1010	1310	1	1	ESE	0	8	1	2	0	0
16/03/2015	2	AM	1010	1310	2	1	E	0	8	1	2	0	0
16/03/2015	2	AM	1010	1310	3	1	E	2	8	1	2	0	0
16/03/2015	3	AT	1040	1340	1	1	NE	0	8	1	2	0	0
16/03/2015	3	AT	1040	1340	2	2	SE	1	8	1	2	0	0
16/03/2015	3	AT	1040	1340	3	2	E	1	8	2	2	0	0
16/03/2015	3	AM	1410	1710	1	1	ENE	4	8	2	2	0	0
16/03/2015	3	AM	1410	1710	2	2	E	2	8	2	2	0	0
16/03/2015	3	AM	1410	1710	3	1	E	2	8	2	2	0	0
16/03/2015	2	AT	1450	1750	1	2	E	0	8	2	2	0	0
16/03/2015	2	AT	1450	1750	2	1	E	0	8	2	2	0	0

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
16/03/2015	2	AT	1450	1750	3	1	E	0	8	2	2	0	0
27/03/2015	3	SP	0505	0805	1	3	W	0	3	2	2	1	0
27/03/2015	3	SP	0505	0805	2	3	W	0	3	2	2	1	0
27/03/2015	3	SP	0505	0805	3	3	W	2	5	2	2	0	0
27/03/2015	2	SP	1640	1940	1	3	SW	0	7	2	2	0	0
27/03/2015	2	SP	1640	1940	2	3	SW	0	5	2	2	0	0
27/03/2015	2	SP	1640	1940	3	3	SW	0	4	2	2	0	0
02/04/2015	2	SP	0545	0845	1	2	W	0	1	2	2	1	0
02/04/2015	2	SP	0545	0845	2	2	W	0	1	2	2	1	0
02/04/2015	2	SP	0545	0845	3	1	W	0	3	2	2	1	0
02/04/2015	3	SP	1745	2045	1	3	SW	0	6	2	2	0	0
02/04/2015	3	SP	1745	2045	2	3	SW	0	8	2	2	0	0
02/04/2015	3	SP	1745	2045	3	2	SW	0	8	2	2	0	0
07/04/2015	2	AT	0530	0830	1	3	SW	0	8	0	2	0	0
07/04/2015	2	AT	0530	0830	2	3	SW	0	8	0	2	0	0
07/04/2015	2	AT	0530	0830	3	3	SW	0	8	0	2	0	0
07/04/2015	3	AT	1125	1425	1	2	SW	0	8	2	2	0	0
07/04/2015	3	AT	1125	1425	2	2	SW	0	8	2	2	0	0
07/04/2015	3	AT	1125	1425	3	3	SW	2	8	2	2	0	0
09/04/2015	2	AT	1810	2110	1	4	SSE	0	1	2	1	0	0
09/04/2015	2	AT	1810	2110	2	4	SSW	0	0	2	2	0	0
09/04/2015	2	AT	1810	2110	3	4	SW	0	0	2	2	0	0
09/04/2015	3	AT	1320	1632	1	3	SW	0	4	2	2	0	0
09/04/2015	3	AT	1320	1632	2	3	SW	0	3	2	2	0	0
09/04/2015	3	AT	1320	1632	3	2	SW	0	2	2	2	0	0
16/04/2015	2	SP	0945	1245	1	1	N	0	3	2	2	0	0
16/04/2015	2	SP	0945	1245	2	2	NE	0	3	2	2	0	0

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
16/04/2015	2	SP	0945	1245	3	1	NE	0	2	2	2	0	0
16/04/2015	3	SP	0505	0805	1	1	W	0	2	2	2	1	0
16/04/2015	3	SP	0505	0805	2	1	SW	0	1	2	1	1	0
16/04/2015	3	SP	0505	0805	3	1	W	0	1	2	1	0	0
21/04/2015	2	AT	1050	1350	1	3	SW	0	0	2	2	0	0
21/04/2015	2	AT	1050	1350	2	2	SW	0	0	2	2	0	0
21/04/2015	2	AT	1050	1350	3	2	W	0	0	2	2	0	0
23/04/2015	2	AT	0550	0850	1	1	SSW	0	2	2	2	0	0
23/04/2015	2	AT	0550	0850	2	0	-	0	2	2	2	0	0
23/04/2015	2	AT	0550	0850	3	0	SW	0	1	2	2	0	0
23/04/2015	3	AT	1045	1345	1	3	SW	0	1	2	2	0	0
23/04/2015	3	AT	1045	1345	2	2	SW	0	1	2	2	0	0
23/04/2015	3	AT	1045	1345	3	3	W	0	1	2	2	0	0
30/04/2015	2	AT	1215	1515	1	3	NW	0	5	2	2	0	0
30/04/2015	2	AT	1215	1515	2	4	NW	0	4	2	2	0	0
30/04/2015	2	AT	1215	1515	3	3	NW	2	5	2	2	0	0
30/04/2015	3	AT	0710	1010	1	3	NNE	0	6	1	2	0	0
30/04/2015	3	AT	0710	1010	2	3	NNE	0	4	2	2	0	0
30/04/2015	3	AT	0710	1010	3	3	NNE	0	5	2	2	0	0
01/05/2015	2	AT	0920	1220	1	2	ESE	0	4	2	2	1	0
01/05/2015	2	AT	0920	1220	2	3	ESE	0	5	2	2	0	0
01/05/2015	2	AT	0920	1220	3	3	ESE	0	7	2	2	0	0
01/05/2015	2	AT	1350	1650	1	3	NNE	0	5	2	2	0	0
01/05/2015	2	AT	1350	1650	2	3	NE	0	6	2	2	0	0
01/05/2015	2	AT	1350	1650	3	3	NNE	0	7	2	2	0	0
06/05/2015	2	SP	1855	2155	1	4	NW	0	6	2	2	0	0
06/05/2015	2	SP	1855	2155	2	4	NW	0	4	2	2	0	0

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
06/05/2015	2	SP	1855	2155	3	3	NW	0	3	2	2	0	0
06/05/2015	3	SP	1500	1800	1	4	WNW	2	6	2	2	0	0
06/05/2015	3	SP	1500	1800	2	4	WNW	5	7	2	1	0	0
06/05/2015	3	SP	1500	1800	3	3	NW	4	6	2	1	0	0
08/05/2015	2	AT	1050	1350	1	3	SE	0	6	2	2	0	0
08/05/2015	2	AT	1050	1350	2	2	SE	0	8	2	2	0	0
08/05/2015	2	AT	1050	1350	3	2	SSE	0	8	2	2	0	0
20/05/2015	2	SP	0500	0800	1	4	W	0	3	2	2	0	0
20/05/2015	2	SP	0500	0800	2	4	W	0	2	2	2	0	0
20/05/2015	2	SP	0500	0800	3	4	W	0	2	2	2	0	0
20/05/2015	3	SP	1830	2130	1	4	W	0	3	2	2	0	0
20/05/2015	3	SP	1830	2130	2	4	W	3	7	2	2	0	0
20/05/2015	3	SP	1830	2130	3	4	W	3	8	2	2	0	0
26/05/2015	2	SP	0450	0750	1	2	W	0	6	2	2	0	0
26/05/2015	2	SP	0450	0750	2	2	W	1	7	1	1	0	0
26/05/2015	2	SP	0450	0750	3	3	W	1	7	2	2	0	0
26/05/2015	2	SP	0905	1205	1	3	W	1	7	2	2	0	0
26/05/2015	2	SP	0905	1205	2	4	NW	2	6	2	2	0	0
26/05/2015	2	SP	0905	1205	3	4	NW	0	5	2	2	0	0
27/05/2015	2	SP	1930	2230	1	4	SW	4	8	1	1	0	0
27/05/2015	2	SP	1930	2230	2	4	SW	4	8	1	1	0	0
27/05/2015	2	SP	1930	2230	3	4	SW	3	8	1	1	0	0
27/05/2015	3	SP	1520	1820	1	4	SW	5	8	1	1	0	0
27/05/2015	3	SP	1520	1820	2	4	SW	5	8	1	2	0	0
27/05/2015	3	SP	1520	1820	3	3	SW	3	8	1	2	0	0
30/05/2015	2	SP	0825	1125	1	4	W	0	3	2	2	0	0
30/05/2015	2	SP	0825	1125	2	5	W	0	5	2	2	0	0

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
30/05/2015	2	SP	0825	1125	3	5	W	0	5	2	2	0	0
30/05/2015	3	SP	1240	1540	1	4	W	0	4	2	2	0	0
30/05/2015	3	SP	1240	1540	2	4	W	0	4	2	2	0	0
30/05/2015	3	SP	1240	1540	3	3	W	0	4	2	2	0	0
19/06/2015	3	AT	1540	1840	1	3	WSW	1	8	1	2	0	0
19/06/2015	3	AT	1540	1840	2	2	WSW	2	8	1	2	0	0
19/06/2015	3	AT	1540	1840	3	2	WSW	0	8	1	2	0	0
23/06/2015	2	AT	0655	0955	1	1	SE	0	1	2	2	0	0
23/06/2015	2	AT	0655	0955	2	2	SE	0	3	2	2	0	0
23/06/2015	2	AT	0655	0955	3	1	SE	0	6	2	2	0	0
23/06/2015	3	AT	1105	1405	1	1	NW	0	6	2	2	0	0
23/06/2015	3	AT	1105	1405	2	2	NNW	0	6	2	2	0	0
23/06/2015	3	AT	1105	1405	3	2	NW	0	8	2	2	0	0
25/06/2015	2	AT	1145	1445	1	3	SE	3	8	1	1	0	0
25/06/2015	2	AT	1145	1445	2	3	SSW	3	8	1	1	0	0
25/06/2015	2	AT	1145	1445	3	4	SSW	3	8	1	1	0	0
09/07/2015	2	AT	0845	1145	1	2	NW	0	4	2	2	0	0
09/07/2015	2	AT	0845	1145	2	3	WNW	0	6	2	2	0	0
09/07/2015	2	AT	0845	1145	3	3	W	0	6	2	2	0	0
14/07/2015	3	AT	1235	1535	1	2	WNW	0	6	2	2	0	0
14/07/2015	3	AT	1235	1535	2	1	W	0	5	2	2	0	0
14/07/2015	3	AT	1235	1535	3	1	W	0	5	2	2	0	0
26/07/2015	2	AT	1000	1300	1	3	ESE	0	6	2	2	0	0
26/07/2015	2	AT	1000	1300	2	3	SSE	0	8	2	2	0	0
26/07/2015	2	AT	1000	1300	3	3	SSE	0	8	2	2	0	0
26/07/2015	3	AT	0540	0840	1	1	SW	0	2	2	2	0	0
26/07/2015	3	AT	0540	0840	2	2	SSW	0	2	2	2	0	0

Date	VP	Observer	Survey start time	Survey finish time	Survey hour	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Snow	Frost
26/07/2015	3	AT	0540	0840	3	3	SE	0	6	2	2	0	0
12/08/2015	3	AT	0640	0940	1	1	WSW	0	8	2	2	0	0
12/08/2015	3	AT	0640	0940	2	1	WSW	0	8	2	2	0	0
12/08/2015	3	AT	0640	0940	3	1	WSW	0	8	2	2	0	0
12/08/2015	2	AT	1055	1355	1	3	SW	0	8	2	2	0	0
12/08/2015	2	AT	1055	1355	2	2	SW	0	7	2	2	0	0
12/08/2015	2	AT	1055	1355	3	2	SW	0	5	2	2	0	0
24/08/2015	3	AT	0700	1000	1	2	S	1	4	2	1	0	0
24/08/2015	3	AT	0700	1000	2	2	S	0	4	2	2	0	0
24/08/2015	3	AT	0700	1000	3	1	SSE	0	6	2	2	0	0
24/08/2015	2	AT	1105	1405	1	2	SSW	0	6	2	2	0	0
24/08/2015	2	AT	1105	1405	2	1	SSW	0	8	2	2	0	0
24/08/2015	2	AT	1105	1405	3	1	SSW	0	8	2	2	0	0

C.2 Moorland Breeding Bird Surveys

Moorland breeding bird surveys were undertaken during the 2015 breeding season. See Table C-4 for the survey dates and weather data recorded during these surveys, Annex B for the survey methodology and Annex D for the survey results.

Table C-4 Meteorological conditions during breeding bird surveys at Douglas West by Dunnock Environmental Services

Visit	Date	Time	Area covered	Weather conditions
1	20/04/2015	0832-1708	North section & 500 m buffer	Cloud cover: 3-8/8, overcast with sunny spells later; light south-westerly wind (BF 1-2); dry; ca. 8-14°C
1	22/04/2015	1004-1431	South section & 500 m buffer	Cloud cover: 1-2/8, sunny; light south-easterly wind, turning north-easterly later (BF 0-2); dry
2	13/05/2015	0951-1723	South & north east sections & 500 m buffer	Cloud cover: 7-8/8, overcast with sunny spells pm; light south-westerly wind (BF 0-2); dry; ca. 13°C
2	15/05/2015	0935-1736	North & north west sections & 500 m buffer	Cloud cover: 4/8, partially overcast turning overcast (8/8) from ca.10:00; medium south-south-westerly wind (BF 3) increasing soon to strong south-westerly (BF 3-5); dry with rain from 15:45 to end; ca. 13°C
3	08/06/2015	0908-1754	North & north west sections & 500 m buffer	Cloud cover: 4-8/8, sunny intervals, getting progressively cloudier; light-medium north-north-westerly wind (BF 1-3); dry; ca. 9-15°C
3	12/06/2015	0918-1518	South & north east sections & 500 m buffer	Cloud cover: 4-6/8, hazy sunshine; light to very light north-westerly wind (BF 0-2); dry; ca. 16°C
4	27/06/2015	0845-1813	North & north west sections & 500 m buffer	Cloud cover: 4-8/8, prolonged sunny intervals; medium westerly wind (BF 2-3); very short drizzly showers; ca. 14-17°C
4	29/06/2015	0850-1537	South & north east sections & 500 m buffer	Cloud cover: 6-8/8; medium-strong south-westerly wind (BF 2-4); dry; ca. 14-17°C

C.3 Scarce Breeding Bird Surveys

Scarce breeding bird surveys were undertaken during the 2015 breeding season (and 2014/2015 non-breeding season for barn owl). See Table C-5 and Table C-6 for the survey dates and weather data recorded during these surveys, Annex B for the survey methodology and Annex D for the survey results.

Table C-5 Meteorological conditions during scarce breeding bird surveys at Douglas West by Dunnock Environmental Services

Visit	Date	Type of survey	Area covered	Time	Surveyor	Weather conditions
1	08/04/2015	VP3 - Arkney Hill (NS 81120 31480)	Central and south sections of the site & 500 m buffer	0715-1105	SSRSG	Cloud cover: 1-2/8; light westerly wind (BF 2); dry; frost during first hour
1	08/04/2015	Walk-over and short VPs	Central and south sections & 2 km buffer	1105-1530	SSRSG	
1	10/04/2015	Walk-over and short VPs	West and north west sections & 2 km buffer between Arkney Hill & South Bankend	0650-1205	SSRSG	Cloud cover: 2-6/8; medium to strong southerly wind (BF 3-4); dry
1	10/04/2015	VP2, Wallace's Cave (NS 82111 33771)	North west and central sections of the site & 500 m buffer	1230-1630	SSRSG	
1	16/04/2015	Walk-over and short VPs	East section & 2 km buffer between Windrow Wood and Poniel	1145-2005	SSRSG	Cloud cover: 6-7/8; medium south-westerly wind (BF 3); dry
2	04/05/2015	Walk-over and short VPs	West section & south 2 km buffer around Windrow Burn, Windrow Hill and Rob's Hill	0705-1525	SSRSG	Cloud cover: 4-5/8; strong south-westerly wind (BF 4-6); dry
2	07/05/2015	VP2, Wallace's Cave (NS 82111 33771)	North west and central sections of the site & 500 m buffer	060-1200	DES	Cloud cover: 3-6/8; medium to strong westerly/west-south-westerly/south-westerly wind (BF 3-4); mostly dry, light showers/light rain 09:35-09:55
2	14/05/2015	VP3, Arkney Hill (NS 81120 31480)	Central and south sections of the site & 500 m buffer	0600-1200	DES	Cloud cover: 2-6/8; medium-strong easterly wind (BF 3-5); dry

Visit	Date	Type of survey	Area covered	Time	Surveyor	Weather conditions
2	21/05/2015	Walk-over and short VPs	West edge & 2 km buffer from South Bankend to Arkney Hill	0725-1600	SSRSG	Cloud cover: 7-8/8; medium-strong westerly wind (BF 3-4); dry, apart from first hour (drizzle/mist)
2	22/05/2015	Walk-over and short VPs	Afforested areas along east section & 2 km buffer between Windrow Wood and Poniel	0705-1515	SSRSG	Cloud cover: 5-8/8; medium-strong westerly wind (BF 3-4); low mist and drizzle during first half, making visibility poor, then moderate, second half dry and visibility good
3	11/06/2015	VP2, Wallace's Cave (NS 82111 33771)	North west and central sections of the site & 500 m buffer	0610-1210	DES	Cloud cover: 1-5/8; light to medium-strong south-south-westerly/south-westerly wind (BF 1-3); dry
3	15/06/2015	VP3, Arkney Hill (NS 81120 31480)	Central and S sections of the site & 500 m buffer	0600-120	DES	Cloud cover: 4-8/8; light to medium-strong westerly/south-westerly/ south-south-westerly wind (BF 0-2); dry
3	16/06/2015	Walk-over and short VPs	South half of the site & 2 km buffer	0713-1456	SSRSG	Cloud cover: 7-8/8; light to medium-strong southerly/south-westerly wind (BF 2-3); mist/drizzle during first two hours, making visibility moderate, thereafter dry and visibility good
3	17/06/2015	Walk-over and short VPs	North half of the site & 2 km buffer	0650-1421	SSRSG	Cloud cover: 7-8/8; strong westerly/north-westerly wind (BF 4-5); intermittent driving showers during first four hours with moderate to moderate/good visibility, then light rain with visibility moderate/good

Table C-6 Meteorological conditions during barn owl surveys at Douglas West by Dunnock Environmental Services

Date	Area covered	Time
24/01/2015	Arkney Hill VP overlooking the central and southern sections of the revised development site	0845-1145
24/01/2015	Wallace's Cave VP overlooking the north-western and central sections of the revised development site	1325-1650
31/01/2015	walk over northern, north-western and north-eastern periphery	0845-1530

Date	Area covered	Time
28/02/2015	walk over eastern and south-eastern periphery	0945-1520
08/05/2015	inspection of trees north of Douglas West	0820-0830
12/05/2015	inspections of Poniel Farm, treeline to north-east of Poniel Farm, Craigend Westerhouse and trees, Brackenside, Westtoun Villa and the former Scottish Coal offices in Coalburn	1000-1825
19/06/2015	two VPs overlooking north-eastern corner of site, areas around Craigend and Westerhouse and Poniel Water corridor	2130-2345
25/06/2015	inspections of Westtoun Villa and the former Scottish Coal offices in Coalburn	1635-1730
02/09/2015	inspections of Westtoun Villa and the former Scottish Coal offices in Coalburn	1046-1204

C.4 Black Grouse Surveys

Black grouse surveys were undertaken during the 2015 breeding season. See Table C-7 for the survey dates and weather data recorded during these surveys, Annex B for the survey methodology and Annex D for the survey results.

Table C-7 Meteorological conditions during black grouse surveys at Douglas West by Dunnock Environmental Services

Date	Area covered	Time	Sunrise	Weather conditions	Comments
06/04/2015	Western section of the revised development site and buffer between Arkney Hill and South Bankend	0612-0803	0635	Cloud cover: 0/8; light south-westerly wind (BF 1); dry and sunny	
06/04/2015	North-western section of the revised development site and buffer west and south-west of Coalburn	0640-0840	0635		
08/04/2015	South-western buffer covering the Hagshaw Hill Extension Wind Farm & the section between Windrow Wood to Douglas West	0554-0802	0630	Cloud cover: 1/8; light westerly wind (BF 1); cold (1°C); dry and sunny	
08/04/2015	Eastern section of the revised development site between Douglas West and the DP & north-eastern buffer	0604-0845	0630		
30/04/2015	VP covering the Douglas West lek site	0432-0635	0535	Cloud cover: 8/8; medium north-westerly wind (BF 2-3); cold (2°C); a few very light and very brief showers	
01/05/2015	Two simultaneous VPs within the south-western 1.5 km buffer in the Hagshaw Hill Extension Wind Farm, covering the Blackwood Hill and Rob's Hill lek sites	0440-0640	0533	Cloud cover: 1/8; very light westerly wind (BF 0-1); cold (-3°C to 1°C); dry and sunny; moonlit	Two independent surveyors for Scottish Power Renewables carried out a Black Grouse survey over the Hagshaw Hill Extension Wind Farm area, partially in the

Date	Area covered	Time	Sunrise	Weather conditions	Comments
					area overlooked from the two VPs
01/05/2015	South-western section of Hagshaw Hill Extension Wind Farm between Rob's Hill and Windrow Hill lek area	0640-0725	0533		
08/05/2015	Western section of the revised development site and 1.5 km buffer between South Bankend and the Hagshaw Hill Extension Wind Farm access track	0508-0724	0518	Cloud cover: 8/8; windstill to south-easterly wind (BF 0-1); cold (0°C); mostly dry with two very light and very short showers	
08/05/2015	Eastern section of the development site and 1.5 km buffer between Poniel and Windrow Wood	0523-0755	0518		