





Appendix 7-3 – Summary Tables

Slieveacurry Renewable Energy Development, Co. Clare







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APPENDIX 7-3 (SUMMARY TABLES)

Table 1-1 Vantage Point Survey Effort

Survey Season	Months	Minimum Effort per VP
2016 Breeding Season (3 VPs)	Apr - Sep	36 hours/VP
2016/2017 Non-Breeding Season (3 VPs)	Oct - Mar	36 hours/VP
2017 Breeding Season (3 VPs)	Apr - Sep	36 hours/VP
2017/2018 Non-Breeding Season (3 VPs)	Oct - Mar	36 hours/VP
2020/2021 Non-Breeding Season (3 VPs)	Oct-Mar	36hours/VP
2021 Breeding Season (4 VPs)	Apr-Sept	36hours/VP



Table 1-2 Monthly distribution of flight activity for the target species recorded during Vantage Point Surveys

Table 1-2 Monthly distribut															
Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
	2016	records				1						4	1		6
	2010	bird-secs				30						667	20		717
	2017	records			1								1	1	3
	2017	bird-secs			30								0	30	60
Golden Plover	2018	records	1	1											2
Golden Flover	2016	bird-secs	180	30											210
	2020	records										1	1	1	3
	2020	bird-secs										55	370	70	495
	2021	records		1											1
	2021	bird-secs		170											170
	2016	records						1				1	1		3
	2010	bird-secs						45				120	35		100
	2017	records			1										1
	2017	bird-secs			20										20
Hen Harrier	2018	records	1	1											2
Hell Halliel	2010	bird-secs	72	90											162
	2020	records										1		1	2
	2020	bird-secs										70		45	115
	2021	records	1				2	3	1	3	5				15
	2021	bird-secs	155				43	199	56	163	468				1,084
	2016	records										1			1
	2010	bird-secs										40			40
	0017	records													0
3.4 1·	2017	bird-secs													0
Merlin	0010	records													0
	2018	bird-secs													0
	0000	records													0
	2020	bird-secs													0



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
	0001	records													0
	2021	bird-secs													0
	0016	records										1			1
	2016	bird-secs										208			208
	2017	records													0
	2017	bird-secs													0
Porogrino	2018	records													0
Peregrine	2016	bird-secs													0
	2020	records													0
	2020	bird-secs													0
	2021	records													0
	2021	bird-secs													0
	2016	records										1			1
	2010	bird-secs										234			234
	2017	records													0
	2017	bird-secs													0
Osprey	2018	records													0
Osprey	2010	bird-secs													0
	2020	records													0
	2020	bird-secs													0
	2021	records													0
	2021	bird-secs													0
	2016	records										2			2
	2010	bird-secs										0			0
Common Snipe	2017	records											2	1	3
Common Shipe	2017	bird-secs											15	25	40
	2018	records		1											1
	2010	bird-secs		20											20



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
	0000	records													0
	2020	bird-secs													0
	2021	records				1									1
	2021	bird-secs				5									5
	2016	records				1	3	1	1	1	1	1	1	1	11
	2010	bird-secs				120	225	90	120	90	60	25	40	45	815
	2017	records		2	1		1					2	1		7
	2017	bird-secs		190	140		320					90	20		760
Kestrel	2018	records			1										1
Resuct	2010	bird-secs			120										120
	2020	records										3	1	1	5
	2020	bird-secs										445	170	210	825
	2021	records	1	2	3	1	4	2	25	26	15				79
	2021	bird-secs	270	340	505	22	236	452	1,791	2,118	1,644		_		7,378
	2016	records													0
	2010	bird-secs													0
	2017	records													0
	2017	bird-secs													0
Red Grouse	2018	records													0
Red Glodse	2016	bird-secs													0
	2020	records													0
	2020	bird-secs													0
	2021	records				1									1
	2021	bird-secs				3									3
	2016	records					1								1
Buzzard	2010	bird-secs					300								300
Duzzaiu	2017	records													0
	2017	bird-secs													0



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
	0010	records													0
	2018	bird-secs													0
	2020	records													0
	2020	bird-secs													0
	2021	records													0
	2021	bird-secs													0
	2016	records													0
	2010	bird-secs													0
	2017	records		1						1	1			1	4
	2017	bird-secs		120						104	155			15	394
Sparrowhawk	2018	records	1												1
Sparrownawk	2010	bird-secs	20												20
	2020	records											2		2
	2020	bird-secs											55		55
	2021							2		1	2				4
	2021	bird-secs						43		361	18				422

Based on analysis of all flight activity data within focus area, including data from VPs 1-3/4 and observations of flights below and above PCH. Survey period = April 2016 - March 2018 and October 2020 - September 2021 (Shaded Cells were months not surveyed). Records = No. of Observations. Bird-secs = Total Duration of Flight(s).



Table 1-3 All observations within potential risk area for target species during Vantage Point Surveys

Species	Values	VP1	VP2	VP3	VP4	Totals
C II DI	Observations (All Bands)	4	6	4	0	14
Golden Plover	Duration in PCH (Band 3, in Seconds)	24,830	6,392	3,035	0	34,257
II II	Observations (All Bands)	4	7	11	1	23
Hen Harrier	Duration in PCH (Band 3, in Seconds)	40	171	101	64	376
M . 1	Observations (All Bands)	0	0	1	0	1
Merlin	Duration in PCH (Band 3, in Seconds)	0	0	20	0	20
D	Observations (All Bands)	1	0	0	0	1
Peregrine	Duration in PCH (Band 3, in Seconds)	208	0	0	0	208
0	Observations (All Bands)	1	0	0	0	1
Osprey	Duration in PCH (Band 3, in Seconds)	234	0	0	0	234
Carrage Carrage	Observations (All Bands)	1	4	2	0	7
Common Snipe	Duration in PCH (Band 3, in Seconds)	50	30	0	0	80
Vastual	Observations (All Bands)	45	31	10	20	106
Kestrel	Duration in PCH (Band 3, in Seconds)	1,079	1,507	638	1,571	4,795
Red Grouse	Observations (All Bands)	0	0	1	0	1
Red Grouse	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0
D	Observations (All Bands)	1	0	0	0	1
Buzzard	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0
C 1	Observations (All Bands)	6	1	3	3	13
Sparrowhawk	Duration in PCH (Band 3, in Seconds)	261	0	0	0	261

Based on analysis of all flight data at PCH for each target species recorded from April 2016 to March 2018 and October 2020 to September 2021. Any non-flight observations were excluded from data analysis. PCH = (no. of birds x total duration in PCH). PCH (Potential Collision Height) is considered as all flights which occurred between 25m and 175m as a worst-case scenario for swept height of the turbine blades. Note that VP4 was only surveyed from October 2020 to June 2021.



Table 1-4 Summary of Non-Target Species observations during Vantage Point Surveys

Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2016	Present = X												
	2017	Present = X							X					
Great Black-backed Gull	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X								
	2016	Present = X												
	2017	Present = X								X				
Lesser Black-backed Gull	2018	Present = X												
	2020	Present = X												
	2021	Present = X					X	X	X	X	X			
	2016	Present = X						X						
	2017	Present = X							X			X		
Herring Gull	2018	Present = X												
	2020	Present = X												
	2021	Present = X	X			X	X	X	X	X	X			
	2016	Present = X												
	2017	Present = X												
Black-headed Gull	2018	Present = X												
	2020	Present = X												
	2021	Present = X					X							
	2016	Present = X				X								
	2017	Present = X							X					
Grey Heron	2018	Present = X												
	2020	Present = X												
	2021	Present = X												
Mallard	2016	Present = X				X				X				X



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2017	Present = X												
	2018	Present = X												
	2020	Present = X												
	2021	Present = X												
	2016	Present = X										X		
	2017	Present = X		X		X	X	X	X	X	X			
Meadow Pipit	2018	Present = X	X		X									
	2020	Present = X												
	2021	Present = X					X		X					
	2016	Present = X												
	2017	Present = X		X			X	X	X	X	X			
Pied Wagtail	2018	Present = X	X		X									
	2020	Present = X												
	2021	Present = X	X	X				X	X	X				
	2016	Present = X												
	2017	Present = X				X								
Skylark	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X	X	X	X					
	2016	Present = X				X								
	2017	Present = X				X	X	X						
Cuckoo	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X	X	X						
	2016	Present = X												
Swift	2017	Present = X					X							
	2018	Present = X												



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2020	Present = X												
	2021	Present = X												
	2016	Present = X												
	2017	Present = X					X							
House Martin	2018	Present = X												
	2020	Present = X												
	2021	Present = X						X		X	X			
	2016	Present = X												
	2017	Present = X				X	X	X	X	X	X			
Barn Swallow	2018	Present = X												
	2020	Present = X												
	2021	Present = X							X	X	X			
	2016	Present = X												
	2017	Present = X		X										X
Fieldfare	2018	Present = X			X									
	2020	Present = X											X	
	2021	Present = X	X	X	X									
	2016	Present = X												
	2017	Present = X	X	X									X	X
Redwing	2018	Present = X	X		X									
	2020	Present = X												
	2021	Present = X												
	2016	Present = X				X	X							
	2017	Present = X		X	X			X	X	X		X	X	X
Mistle Thrush	2018	Present = X	X		X									
	2020	Present = X										X		X
	2021	Present = X		X	X		X							



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2016	Present = X												
	2017	Present = X				X		X						
Song Thrush	2018	Present = X												
	2020	Present = X												
	2021	Present = X		X		X	X	X		X	X			
	2016	Present = X										X		
	2017	Present = X				X	X	X	X	X	X			
Blackbird	2018	Present = X	X		X									
	2020	Present = X											X	
	2021	Present = X		X		X	X	X			X			
	2016	Present = X				X	X	X	X	X	X	X	X	X
	2017	Present = X	X	X	X	X	X	X	X	X	X	X	X	X
Raven	2018	Present = X	X	X	X									
	2020	Present = X										X	X	X
	2021	Present = X	X	X	X		X	X	X	X	X			
	2016	Present = X				X	X	X	X	X	X		X	X
	2017	Present = X	X	X	X	X	X	X	X	X	X	X		X
Rook	2018	Present = X	X											
	2020	Present = X										X	X	
	2021	Present = X		X	X		X	X	X	X	X			
	2016	Present = X				X	X	X	X	X	X	X	X	X
	2017	Present = X	X	X	X	X	X	X	X	X	X	X	X	X
Hooded Crow	2018	Present = X	X	X	X									
	2020	Present = X										X	X	X
	2021	Present = X	X	X	X	X	X	X	X	X	X			
Jackdaw	2016	Present = X					X	X	X	X				
Jackuaw	2017	Present = X			X	X	X	X	X	X	X			



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2018	Present = X	X		X									
	2020	Present = X												X
	2021	Present = X		X	X									
	2016	Present = X				X	X	X			X	X		
	2017	Present = X		X	X	X	X	X	X	X	X			
Magpie	2018	Present = X	X		X									
	2020	Present = X												
	2021	Present = X					X	X	X	X	X			
	2016	Present = X												
	2017	Present = X												
Jay	2018	Present = X												
	2020	Present = X												X
	2021	Present = X					X							
	2016	Present = X				X		X				X		
	2017	Present = X		X	X	X	X			X				
Pheasant	2018	Present = X			X									
	2020	Present = X												X
	2021	Present = X	X			X	X	X	X	X				
	2016	Present = X				X	X	X	X	X	X			X
	2017	Present = X	X	X	X	X	X	X	X	X	X	X	X	
Wood Pigeon	2018	Present = X			X									
	2020	Present = X										X		X
	2021	Present = X		X	X	X	X	X	X	X	X			
	2016	Present = X					X	X	X					
Collared Dove	2017	Present = X												
Conared Dove	2018	Present = X												
	2020	Present = X												



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2021	Present = X												
	2016	Present = X												
	2017	Present = X					X	X	X					
Willow Warbler	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X	X	X	X	X				
	2016	Present = X												
	2017	Present = X												
Chiffchaff	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X								
	2016	Present = X												
	2017	Present = X				X	X			X				
Grasshopper Warbler	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X	X	X		X				
	2016	Present = X												
	2017	Present = X				X	X	X	X		X			
Great Tit	2018	Present = X			X									
	2020	Present = X												
	2021	Present = X					X			X	X			
	2016	Present = X												
	2017	Present = X												
Coal Tit	2018	Present = X												
	2020	Present = X												
	2021	Present = X			X	X	X							
Long-tailed Tit	2016	Present = X												



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2017	Present = X						X						
	2018	Present = X												
	2020	Present = X												
	2021	Present = X												
	2016	Present = X												
	2017	Present = X		X						X				
Dunnock	2018	Present = X	X											
	2020	Present = X												
	2021	Present = X								X				
	2016	Present = X												
	2017	Present = X				X	X	X	X	X				
Stonechat	2018	Present = X	X		X									
	2020	Present = X										X	X	X
	2021	Present = X				X	X		X					
	2016	Present = X					X							
	2017	Present = X	X	X	X	X	X	X	X	X	X	X		X
Starling	2018	Present = X	X		X									
	2020	Present = X												X
	2021	Present = X	X	X	X			X	X	X	X			
	2016	Present = X												
	2017	Present = X						X	X	X	X			
Siskin	2018	Present = X			X									
	2020	Present = X												
	2021	Present = X				X				X				
	2016	Present = X												
Lesser Redpoll	2017	Present = X				X	X	X						
	2018	Present = X	X	X										



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2020	Present = X										X	X	
	2021	Present = X						X	X	X				
	2016	Present = X												
	2017	Present = X												
Linnet	2018	Present = X												
	2020	Present = X											X	X
	2021	Present = X						X	X	X				
	2016	Present = X												
	2017	Present = X							X					
Goldcrest	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X				X				
	2016	Present = X												
	2017	Present = X					X							
Goldfinch	2018	Present = X												
	2020	Present = X												
	2021	Present = X					X	X	X	X				
	2016	Present = X												
	2017	Present = X					X							
Bullfinch	2018	Present = X												
	2020	Present = X												
	2021	Present = X												
	2016	Present = X										X		
	2017	Present = X				X	X	X	X	X	X			
Chaffinch	2018	Present = X	X		X									
	2020	Present = X										X		X
	2021	Present = X			X	X	X	X	X					



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2016	Present = X												
	2017	Present = X							X					
House Sparrow	2018	Present = X												
	2020	Present = X												
	2021	Present = X												
	2016	Present = X										X		
	2017	Present = X		X		X	X	X	X	X	X			
Robin	2018	Present = X	X		X									
	2020	Present = X										X	X	
	2021	Present = X			X	X	X	X		X	X			
	2016	Present = X												
	2017	Present = X				X	X	X	X	X				
Wren	2018	Present = X			X									
	2020	Present = X										X	X	X
	2021	Present = X	X	X	X	X	X	X	X	X	X			
	2016	Present = X												
	2017	Present = X												
<u> </u>	2018	Present = X												
	2020	Present = X										X	X	
	2021	Present = X	X		770 10								g . 1	

Based on analysis of all flight activity data within focus area, including data from VPs 1-3. Survey period = April 2016 - March 2018 and October 2020 - September 2021 (Shaded Cells were months not surveyed).



Table 1-5 Target Species observations during Breeding Bird Surveys

Species	Year	Standardised	Apr	May	Jun	Jul	Totals
	2016	No. of observations	1				1
	2010	No. of individuals	20				20
C II DI	0017	No. of observations					0
Golden Plover	2017	No. of individuals					0
	0001	No. of observations					0
	2021	No. of individuals					0
	0016	No. of observations					0
	2016	No. of individuals					0
TT TT .	2017	No. of observations	1				1
Hen Harrier	2017	No. of individuals	1				1
	0001	No. of observations	1		2	1	4
	2021	No. of individuals	1		2	1	4
	0016	No. of observations	5	1		1	7
	2016	No. of individuals	6	1		2	9
Communication Continue	0017	No. of observations	6	5	11		22
Common Snipe	2017	No. of individuals	6	5	11		22
	2021	No. of observations	1	1			2
	2021	No. of individuals	1	1			2
	2016	No. of observations					0
	2010	No. of individuals					0
Kestrel	2017	No. of observations					0
IVESILEI	2017	No. of individuals					0
	2021	No. of observations		1	1	3	5
	2021	No. of individuals		1	1	3	5
Red Grouse	2016	No. of observations	1				1
Neu Grouse	2010	No. of individuals	1				1



Species	Year	Standardised	Apr	May	Jun	Jul	Totals
	2017	No. of observations					0
	2017	No. of individuals					0
	0001	No. of observations					0
	2021	No. of individuals					0
	2016	No. of observations	1				1
	2010	No. of individuals	1				1
Woodcock	2017	No. of observations					0
Woodcock	2017	No. of individuals					0
	9091	No. of observations					0
	2021	No. of individuals					0
	2016	No. of observations					0
	2010	No. of individuals					0
C 1	0017	No. of observations					0
Sparrowhawk	2017 -	No. of individuals					0
		No. of observations			1		1
A 11 12 A 21 12		No. of individuals	17.1		1		1

As per Adapted Brown & Shepard Survey methodology, surveys were undertaken between April and July in 2016, 2017 and 2021 to ensure all species, including late breeders, were recorded.



Table 1-6 Non-Target species observations during Breeding Bird Surveys

Species	Year	Standardised	Apr	May	Jun	Jul
	2016	Present = X				
Mallard	2017	Present = X				
	2021	Present = X	X			
	2016	Present = X				
Herring Gull	2017	Present = X				
	2021	Present = X			X	
	2016	Present = X				
Great Black-backed Gull	2017	Present = X				
	2021	Present = X	X			
	2016	Present = X				
Lesser Black-backed Gull	2017	Present = X				
	2021	Present = X		X	X	X
	2016	Present = X				
Grey Wagtail	2017	Present = X				
	2021	Present = X	X	X		
	2016	Present = X	X	X	X	X
Meadow Pipit	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	X
	2016	Present = X	X	X		
Cuckoo	2017	Present = X				
	2021	Present = X		X	X	
	2016	Present = X				
Barn Swallow	2017	Present = X				
	2021	Present = X	X	X		
Mistle Thrush	2016	Present = X	X	X	X	X



Species	Year	Standardised	Apr	May	Jun	Jul
	2017	Present = X	X	X	X	
	2021	Present = X				
	2016	Present = X		X		X
Song Thrush	2017	Present = X	X	X		
	2021	Present = X		X		
	2016	Present = X	X	X	X	X
Blackbird	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	
	2016	Present = X				X
Raven	2017	Present = X				
	2021	Present = X	X	X	X	
	2016	Present = X		X		
Rook	2017	Present = X				X
	2021	Present = X	X	X	X	
	2016	Present = X				X
Hooded Crow	2017	Present = X				
	2021	Present = X	X	X	X	
	2016	Present = X				
Jackdaw	2017	Present = X	X		X	X
	2021	Present = X			X	
	2016	Present = X				X
Magpie	2017	Present = X				
	2021	Present = X	X		X	
Pheasant	2016	Present = X	X	X		
1 Heasant	2017	Present = X				



Species	Year	Standardised	Apr	May	Jun	Jul
	2021	Present = X	X	X	X	
	2016	Present = X	X	X		
Wood Pigeon	2017	Present = X	X			X
	2021	Present = X	X	X	X	
	2016	Present = X				X
Swift	2017	Present = X				
	2021	Present = X				
	2016	Present = X				X
House Martin	2017	Present = X				
	2021	Present = X			X	
	2016	Present = X		X	X	X
Barn Swallow	2017	Present = X				X
	2021	Present = X				
	2016	Present = X	X	X	X	
Grasshopper Warbler	2017	Present = X		X	X	X
	2021	Present = X		X	X	
	2016	Present = X		X	X	
Sedge Warbler	2017	Present = X				
	2021	Present = X		X		
	2016	Present = X	X	X	X	X
Willow Warbler	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	
	2016	Present = X	X			
Chiffchaff	2017	Present = X	X			
	2021	Present = X	X		X	



Species	Year	Standardised	Apr	May	Jun	Jul
	2016	Present = X		X		
Blackcap	2017	Present = X		X		
	2021	Present = X		X		
	2016	Present = X	X	X		
Reed Bunting	2017	Present = X				
	2021	Present = X				
	2016	Present = X				
Blue Tit	2017	Present = X		X		
	2021	Present = X		X		
	2016	Present = X	X			X
Coal Tit	2017	Present = X			X	
	2021	Present = X	X	X		
	2016	Present = X				
Great Tit	2017	Present = X			X	
	2021	Present = X	X	X	X	
	2016	Present = X				X
Long-tailed Tit	2017	Present = X				
	2021	Present = X				
	2016	Present = X				X
Dunnock	2017	Present = X	X	X	X	
	2021	Present = X	X	X		
	2016	Present = X		X	X	X
Stonechat	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	
Starling	2016	Present = X				



Species	Year	Standardised	Apr	May	Jun	Jul
	2017	Present = X		X	X	X
	2021	Present = X	X	X	X	
	2016	Present = X	X			
Siskin	2017	Present = X				X
	2021	Present = X		X	X	
	2016	Present = X	X	X	X	X
Skylark	2017	Present = X	X	X	X	
	2021	Present = X	X	X	X	
	2016	Present = X			X	
Lesser Redpoll	2017	Present = X			X	X
	2021	Present = X		X		
	2016	Present = X				X
Linnet	2017	Present = X				
	2021	Present = X		X	X	
	2016	Present = X	X	X		X
Goldcrest	2017	Present = X				X
	2021	Present = X	X	X		
	2016	Present = X				
Pied Wagtail	2017	Present = X				
	2021	Present = X	X	X	X	
	2016	Present = X				
Bullfinch	2017	Present = X				X
	2021	Present = X			X	
Ch affin als	2016	Present = X		X	X	X
Chaffinch	2017	Present = X	X	X	X	X



Species	Year	Standardised	Apr	May	Jun	Jul
	2021	Present = X	X	X	X	
	2016	Present = X				X
Goldfinch	2017	Present = X				X
	2021	Present = X	X	X	X	
	2016	Present = X				
House Sparrow	2017	Present = X		X		
	2021	Present = X	X		X X	
	2016	Present = X			X	X
Robin	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	
	2016	Present = X	X	X	X	X
Wren	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	
	2016	Present = X				
Reed Bunting	2017	Present = X				
	2021	Present = X		X		

As per Adapted Brown & Shepard Survey methodology, surveys were undertaken between April and July in 2016, 2017 and 2021, to include late breeders counts.



Table 1-7 Summary of monthly abundance during Breeding Raptor Surveys

Species	Year	Standardised	Apr	May	Jun	Jul	Totals
	0016	No. of observations					0
	2016	No. of individuals					0
** ** .	0017	No. of observations					0
Hen Harrier	2017	No. of individuals					0
	2021	No. of observations	5	3	11		19
	2021	No. of individuals	7	3	12		22
	2016	No. of observations	1	3	2	2	8
	2010	No. of individuals	1	3	2	5	11
TZ , 1	2017	No. of observations		2	2	2	6
Kestrel	2017	No. of individuals		2	2	2	6
	0001	No. of observations	3	2	1	1	6
	2021	No. of individuals	3	2	1	1	6
	0016	No. of observations	1		1		2
	2016	No. of individuals	1		1		2
0 1 1	9017	No. of observations					0
Sparrowhawk	2017	No. of individuals					0
	0001	No. of observations	1		2	0 0 0 0 19 22 2 8 5 11 2 6 2 6 1 6 1 6 1 6	3
	2021	No. of individuals	1		2		3



Table 1-8 Red Grouse observations during Red Grouse Surveys

Species	Month/Year	Standardised	Totals						
	March 2017	No. of observations	2						
Red Grouse	March 2017	No. of individuals	2						
Red Grouse	M l. 9010	No. of observations	8						
	March 2018	No. of observations2No. of individuals2No. of observations8No. of individuals10	10						
As per Bibby et al. (2000) and Murray et al. (As per Bibby et al. (2000) and Murray et al. (2013), surveys were undertaken in March 2017 and March 2018.								



Table 1-9 Summary of monthly observations of Hen Harrier during Hen Harrier Roost Surveys

Species	Year	Standardised	Jan	Feb	Mar	Oct	Nov	Dec	Totals
	0016	No. of observations				1			1
	2016	No. of individuals				1			1
	0017	No. of observations							0
	2017	No. of individuals							0
TT TT .	0010	No. of observations							0
Hen Harrier	2018	No. of individuals							0
	0000	No. of observations							0
	2020	No. of individuals							0
	2021	No. of observations							0
		No. of individuals							0
Shaded cells are those months w	here no surveys	were undertaken.							



Table 1-10 Summary of monthly abundance during Winter Transect Surveys

Species	Year	Standardised	Jan	Feb	Mar	Oct	Nov	Dec	Totals
	0016	No. of observations							0
	2010	No. of individuals							0
	9017	No. of observations							0
	2017	No. of individuals							0
Golden Plover	2016 No. of individuals		0						
Goldell Flovel	2016	No. of individuals							0
	2020	No. of observations							0
	2020	No. of individuals							0
	2021	No. of observations	1						1
	2021	No. of individuals	6						6
	2016	No. of observations				1		1	2
	2016	No. of individuals				1		1	2
	2017	No. of observations	1	1		1			3
	2017	No. of individuals	1	1		1			3
Hen Harrier	2019	No. of observations							0
пен пашег	2016	No. of individuals							0
	2020	No. of observations							
	2020	No. of individuals							
	2021	No. of observations							
	2021	No. of individuals							
	2016	No. of observations				4	3	6	13
	2010	No. of individuals				4	6	10	20
	9017	No. of observations	3			5	6	7	21
	2017	No. of individuals	5			9	11	10	35
Common Snipe	2019	No. of observations	7						7
	2018	No. of individuals	8						8
	2020	No. of observations							0
	2020	No. of individuals							0
	9091	No. of observations							0
	2021	No. of individuals							0



Species	Year	Standardised	Jan	Feb	Mar	Oct	Nov	Dec	Totals
	9016	No. of observations							0
	2010	No. of individuals							0
	9017	No. of observations							0
	2017	No. of individuals							0
Vastus 1	9019	No. of observations		1				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
Kestrei	2016	No. of individuals		1					1
	2020	2016 No. of observations No. of individuals No. of individuals No. of individuals No. of individuals No. of observations No. of individuals No. of individuals	0						
	2020	No. of individuals							0
	9091	No. of observations	O O O O O O O O O O	2					
	2021	No. of individuals		1	1				2
	2016	No. of observations							0
	2010	No. of individuals							0
	9017	No. of observations							0
	2017	No. of individuals							0
C	9019	No. of observations		1					1
Sparrownawk	2018	No. of individuals		1					1
sparrowhawk	2020	No. of observations					9		9
	2020	No. of individuals					10		10
2018	6	11	9				26		
	2021	No. of individuals	10	13	12				35

Surveys were undertaken between the period of October 2016 - March 2017, October 2017 - March 2018, November 2020 and January - March 2021. Surveys comprised of walked transects within the development site and 500m of same. Shaded cells are months were no surveys were undertaken.



Table 1-11 Summary of monthly abundance during Waterfowl Surveys

Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Aug	Sep	Oct	Nov	Dec	Totals
	0016	No. of observations											0
TA7:	2016	No. of individuals											0
Wigeon	2017	No. of observations	1										1
	2017	No. of individuals	15										15
	2016	No. of observations						2					2
	2010	No. of individuals						5					5
Mallard		No. of observations		1	2								3
	2017	No. of individuals		3	8								11
	0016	No. of observations						2	1				3
Moorhen	2016	No. of individuals						3	2				5
Moornen	0017	No. of observations		1	1								2
	2017	No. of individuals		2	2								4
	2016	No. of observations						1					1
Water Rail	2010	No. of individuals						1					1
water Kan	2017	No. of observations											0
	2017	No. of individuals											0
Shaded cells are thos	e months where	no surveys were undertake	en.										