

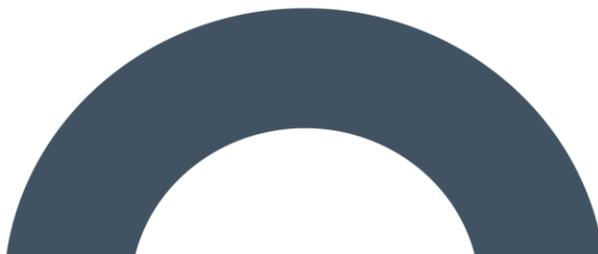


APPENDIX 7-3

SUMMARY TABLES

Appendix 7-3 – Summary Tables

Slieveacurry Renewable
Energy Development, Co.
Clare





DOCUMENT DETAILS

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1.

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

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



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



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



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	
	2018	records													0	
		bird-secs														0
	2020	records														0
		bird-secs														0
	2021	records														0
		bird-secs														0
Sparrowhawk	2016	records													0	
		bird-secs														0
	2017	records		1							1	1			1	4
		bird-secs		120							104	155			15	394
	2018	records	1													1
		bird-secs	20													20
	2020	records												2		2
		bird-secs												55		55
	2021	records							2		1	2				4
		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
Golden Plover	Observations (All Bands)	4	6	4	0	14
	Duration in PCH (Band 3, in Seconds)	24,830	6,392	3,035	0	34,257
Hen Harrier	Observations (All Bands)	4	7	11	1	23
	Duration in PCH (Band 3, in Seconds)	40	171	101	64	376
Merlin	Observations (All Bands)	0	0	1	0	1
	Duration in PCH (Band 3, in Seconds)	0	0	20	0	20
Peregrine	Observations (All Bands)	1	0	0	0	1
	Duration in PCH (Band 3, in Seconds)	208	0	0	0	208
Osprey	Observations (All Bands)	1	0	0	0	1
	Duration in PCH (Band 3, in Seconds)	234	0	0	0	234
Common Snipe	Observations (All Bands)	1	4	2	0	7
	Duration in PCH (Band 3, in Seconds)	50	30	0	0	80
Kestrel	Observations (All Bands)	45	31	10	20	106
	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
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0
Buzzard	Observations (All Bands)	1	0	0	0	1
	Duration in PCH (Band 3, in Seconds)	0	0	0	0	0
Sparrowhawk	Observations (All Bands)	6	1	3	3	13
	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
Great Black-backed Gull	2016	Present = X												
	2017	Present = X							X					
	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X								
Lesser Black-backed Gull	2016	Present = X												
	2017	Present = X								X				
	2018	Present = X												
	2020	Present = X												
	2021	Present = X					X	X	X	X	X			
Herring Gull	2016	Present = X						X						
	2017	Present = X							X			X		
	2018	Present = X												
	2020	Present = X												
	2021	Present = X	X			X	X	X	X	X	X			
Black-headed Gull	2016	Present = X												
	2017	Present = X												
	2018	Present = X												
	2020	Present = X												
	2021	Present = X					X							
Grey Heron	2016	Present = X				X								
	2017	Present = X							X					
	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													
Meadow Pipit	2016	Present = X											X		
	2017	Present = X		X		X	X	X	X	X	X				
	2018	Present = X	X		X										
	2020	Present = X													
	2021	Present = X					X		X						
Pied Wagtail	2016	Present = X													
	2017	Present = X		X			X	X	X	X	X				
	2018	Present = X	X		X										
	2020	Present = X													
	2021	Present = X	X	X				X	X	X					
Skylark	2016	Present = X													
	2017	Present = X				X									
	2018	Present = X													
	2020	Present = X													
	2021	Present = X				X	X	X	X						
Cuckoo	2016	Present = X											X		
	2017	Present = X				X	X	X							
	2018	Present = X													
	2020	Present = X													
	2021	Present = X				X	X	X							
Swift	2016	Present = X													
	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												
House Martin	2016	Present = X												
	2017	Present = X					X							
	2018	Present = X												
	2020	Present = X												
	2021	Present = X						X		X	X			
	Barn Swallow	2016	Present = X											
2017		Present = X				X	X	X	X	X	X			
2018		Present = X												
2020		Present = X												
2021		Present = X							X	X	X			
Fieldfare	2016	Present = X												
	2017	Present = X		X										X
	2018	Present = X			X									
	2020	Present = X											X	
	2021	Present = X	X	X	X									
Redwing	2016	Present = X												
	2017	Present = X	X	X									X	X
	2018	Present = X	X		X									
	2020	Present = X												
	2021	Present = X												
Mistle Thrush	2016	Present = X				X	X							
	2017	Present = X		X	X			X	X	X		X	X	X
	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
Song Thrush	2016	Present = X												
	2017	Present = X				X		X						
	2018	Present = X												
	2020	Present = X												
	2021	Present = X		X		X	X	X		X	X			
Blackbird	2016	Present = X										X		
	2017	Present = X				X	X	X	X	X	X			
	2018	Present = X	X		X									
	2020	Present = X											X	
	2021	Present = X		X		X	X	X			X			
Raven	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
	2018	Present = X	X	X	X									
	2020	Present = X										X	X	X
	2021	Present = X	X	X	X		X	X	X	X	X			
Rook	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
	2018	Present = X	X											
	2020	Present = X										X	X	
	2021	Present = X		X	X		X	X	X	X	X			
Hooded Crow	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
	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				
	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									
Magpie	2016	Present = X				X	X	X			X	X		
	2017	Present = X		X	X	X	X	X	X	X	X			
	2018	Present = X	X		X									
	2020	Present = X												
	2021	Present = X					X	X	X	X	X			
Jay	2016	Present = X												
	2017	Present = X												
	2018	Present = X												
	2020	Present = X												X
	2021	Present = X					X							
Pheasant	2016	Present = X				X		X				X		
	2017	Present = X		X	X	X	X			X				
	2018	Present = X			X									
	2020	Present = X												X
	2021	Present = X	X			X	X	X	X	X	X			
Wood Pigeon	2016	Present = X				X	X	X	X	X	X			X
	2017	Present = X	X	X	X	X	X	X	X	X	X	X	X	
	2018	Present = X			X									
	2020	Present = X										X		X
	2021	Present = X		X	X	X	X	X	X	X	X			
Collared Dove	2016	Present = X					X	X	X					
	2017	Present = X												
	2018	Present = X												
	2020	Present = X												



Species	Year	Standardised	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2021	Present = X												
Willow Warbler	2016	Present = X												
	2017	Present = X					X	X	X					
	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X	X	X	X	X				
Chiffchaff	2016	Present = X												
	2017	Present = X												
	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X								
Grasshopper Warbler	2016	Present = X												
	2017	Present = X				X	X			X				
	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X	X	X		X				
Great Tit	2016	Present = X												
	2017	Present = X				X	X	X	X		X			
	2018	Present = X			X									
	2020	Present = X												
	2021	Present = X					X			X	X			
Coal Tit	2016	Present = X												
	2017	Present = X												
	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												
Dunnock	2016	Present = X												
	2017	Present = X		X						X				
	2018	Present = X	X											
	2020	Present = X												
	2021	Present = X								X				
Stonechat	2016	Present = X												
	2017	Present = X				X	X	X	X	X				
	2018	Present = X	X		X									
	2020	Present = X										X	X	X
	2021	Present = X				X	X		X					
Starling	2016	Present = X					X							
	2017	Present = X	X	X	X	X	X	X	X	X	X	X		X
	2018	Present = X	X		X									
	2020	Present = X												X
	2021	Present = X	X	X	X			X	X	X	X			
Siskin	2016	Present = X												
	2017	Present = X						X	X	X	X			
	2018	Present = X			X									
	2020	Present = X												
	2021	Present = X				X				X				
Lesser Redpoll	2016	Present = X												
	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				
Linnet	2016	Present = X												
	2017	Present = X												
	2018	Present = X												
	2020	Present = X											X	X
	2021	Present = X							X	X	X			
Goldcrest	2016	Present = X												
	2017	Present = X							X					
	2018	Present = X												
	2020	Present = X												
	2021	Present = X				X					X			
Goldfinch	2016	Present = X												
	2017	Present = X					X							
	2018	Present = X												
	2020	Present = X												
	2021	Present = X					X	X	X	X				
Bullfinch	2016	Present = X												
	2017	Present = X					X							
	2018	Present = X												
	2020	Present = X												
	2021	Present = X												
Chaffinch	2016	Present = X										X		
	2017	Present = X				X	X	X	X	X	X			
	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
House Sparrow	2016	Present = X												
	2017	Present = X							X					
	2018	Present = X												
	2020	Present = X												
	2021	Present = X												
Robin	2016	Present = X										X		
	2017	Present = X		X		X	X	X	X	X	X			
	2018	Present = X	X		X									
	2020	Present = X										X	X	
	2021	Present = X			X	X	X	X		X	X			
Wren	2016	Present = X												
	2017	Present = X				X	X	X	X	X				
	2018	Present = X			X									
	2020	Present = X										X	X	X
	2021	Present = X	X	X	X	X	X	X	X	X	X			
Reed Bunting	2016	Present = X												
	2017	Present = X												
	2018	Present = X												
	2020	Present = X										X	X	
	2021	Present = X	X											

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
Golden Plover	2016	No. of observations	1				1
		No. of individuals	20				20
	2017	No. of observations					0
		No. of individuals					0
	2021	No. of observations					0
		No. of individuals					0
Hen Harrier	2016	No. of observations					0
		No. of individuals					0
	2017	No. of observations	1				1
		No. of individuals	1				1
	2021	No. of observations	1		2	1	4
		No. of individuals	1		2	1	4
Common Snipe	2016	No. of observations	5	1		1	7
		No. of individuals	6	1		2	9
	2017	No. of observations	6	5	11		22
		No. of individuals	6	5	11		22
	2021	No. of observations	1	1			2
		No. of individuals	1	1			2
Kestrel	2016	No. of observations					0
		No. of individuals					0
	2017	No. of observations					0
		No. of individuals					0
	2021	No. of observations		1	1	3	5
		No. of individuals		1	1	3	5
Red Grouse	2016	No. of observations	1				1
		No. of individuals	1				1



Species	Year	Standardised	Apr	May	Jun	Jul	Totals
	2017	No. of observations					0
		No. of individuals					0
	2021	No. of observations					0
		No. of individuals					0
Woodcock	2016	No. of observations	1				1
		No. of individuals	1				1
	2017	No. of observations					0
		No. of individuals					0
	2021	No. of observations					0
		No. of individuals					0
Sparrowhawk	2016	No. of observations					0
		No. of individuals					0
	2017	No. of observations					0
		No. of individuals					0
	2021	No. of observations			1		1
		No. of individuals			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
Mallard	2016	Present = X				
	2017	Present = X				
	2021	Present = X	X			
Herring Gull	2016	Present = X				
	2017	Present = X				
	2021	Present = X			X	
Great Black-backed Gull	2016	Present = X				
	2017	Present = X				
	2021	Present = X	X			
Lesser Black-backed Gull	2016	Present = X				
	2017	Present = X				
	2021	Present = X		X	X	X
Grey Wagtail	2016	Present = X				
	2017	Present = X				
	2021	Present = X	X	X		
Meadow Pipit	2016	Present = X	X	X	X	X
	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	X
Cuckoo	2016	Present = X	X	X		
	2017	Present = X				
	2021	Present = X		X	X	
Barn Swallow	2016	Present = X				
	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				
Song Thrush	2016	Present = X		X		X
	2017	Present = X	X	X		
	2021	Present = X		X		
Blackbird	2016	Present = X	X	X	X	X
	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	
Raven	2016	Present = X				X
	2017	Present = X				
	2021	Present = X	X	X	X	
Rook	2016	Present = X		X		
	2017	Present = X				X
	2021	Present = X	X	X	X	
Hooded Crow	2016	Present = X				X
	2017	Present = X				
	2021	Present = X	X	X	X	
Jackdaw	2016	Present = X				
	2017	Present = X	X		X	X
	2021	Present = X			X	
Magpie	2016	Present = X				X
	2017	Present = X				
	2021	Present = X	X		X	
Pheasant	2016	Present = X	X	X		
	2017	Present = X				



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



Species	Year	Standardised	Apr	May	Jun	Jul
Blackcap	2016	Present = X		X		
	2017	Present = X		X		
	2021	Present = X		X		
Reed Bunting	2016	Present = X	X	X		
	2017	Present = X				
	2021	Present = X				
Blue Tit	2016	Present = X				
	2017	Present = X		X		
	2021	Present = X		X		
Coal Tit	2016	Present = X	X			X
	2017	Present = X			X	
	2021	Present = X	X	X		
Great Tit	2016	Present = X				
	2017	Present = X			X	
	2021	Present = X	X	X	X	
Long-tailed Tit	2016	Present = X				X
	2017	Present = X				
	2021	Present = X				
Dunnock	2016	Present = X				X
	2017	Present = X	X	X	X	
	2021	Present = X	X	X		
Stonechat	2016	Present = X		X	X	X
	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	
Siskin	2016	Present = X	X			
	2017	Present = X				X
	2021	Present = X		X	X	
Skylark	2016	Present = X	X	X	X	X
	2017	Present = X	X	X	X	
	2021	Present = X	X	X	X	
Lesser Redpoll	2016	Present = X			X	
	2017	Present = X			X	X
	2021	Present = X		X		
Linnet	2016	Present = X				X
	2017	Present = X				
	2021	Present = X		X	X	
Goldcrest	2016	Present = X	X	X		X
	2017	Present = X				X
	2021	Present = X	X	X		
Pied Wagtail	2016	Present = X				
	2017	Present = X				
	2021	Present = X	X	X	X	
Bullfinch	2016	Present = X				
	2017	Present = X				X
	2021	Present = X			X	
Chaffinch	2016	Present = X		X	X	X
	2017	Present = X	X	X	X	X



Species	Year	Standardised	Apr	May	Jun	Jul
	2021	Present = X	X	X	X	
Goldfinch	2016	Present = X				X
	2017	Present = X				X
	2021	Present = X	X	X	X	
House Sparrow	2016	Present = X				
	2017	Present = X		X		
	2021	Present = X	X		X	
Robin	2016	Present = X			X	X
	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	
Wren	2016	Present = X	X	X	X	X
	2017	Present = X	X	X	X	X
	2021	Present = X	X	X	X	
Reed Bunting	2016	Present = X				
	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
Hen Harrier	2016	No. of observations					0
		No. of individuals					0
	2017	No. of observations					0
		No. of individuals					0
	2021	No. of observations	5	3	11		19
		No. of individuals	7	3	12		22
Kestrel	2016	No. of observations	1	3	2	2	8
		No. of individuals	1	3	2	5	11
	2017	No. of observations		2	2	2	6
		No. of individuals		2	2	2	6
	2021	No. of observations	3	2	1	1	6
		No. of individuals	3	2	1	1	6
Sparrowhawk	2016	No. of observations	1		1		2
		No. of individuals	1		1		2
	2017	No. of observations					0
		No. of individuals					0
	2021	No. of observations	1		2		3
		No. of individuals	1		2		3

Table 1-8 Red Grouse observations during Red Grouse Surveys

Species	Month/Year	Standardised	Totals
Red Grouse	March 2017	No. of observations	2
		No. of individuals	2
	March 2018	No. of observations	8
		No. of individuals	10
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
Hen Harrier	2016	No. of observations				1			1
		No. of individuals				1			1
	2017	No. of observations							0
		No. of individuals							0
	2018	No. of observations							0
		No. of individuals							0
	2020	No. of observations							0
		No. of individuals							0
	2021	No. of observations							0
		No. of individuals							0

Shaded cells are those months where 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
Golden Plover	2016	No. of observations							0
		No. of individuals							0
	2017	No. of observations							0
		No. of individuals							0
	2018	No. of observations							0
		No. of individuals							0
	2020	No. of observations							0
		No. of individuals							0
	2021	No. of observations	1						1
		No. of individuals	6						6
Hen Harrier	2016	No. of observations				1		1	2
		No. of individuals				1		1	2
	2017	No. of observations	1	1		1			3
		No. of individuals	1	1		1			3
	2018	No. of observations							0
		No. of individuals							0
	2020	No. of observations							
		No. of individuals							
	2021	No. of observations							
		No. of individuals							
Common Snipe	2016	No. of observations				4	3	6	13
		No. of individuals				4	6	10	20
	2017	No. of observations	3			5	6	7	21
		No. of individuals	5			9	11	10	35
	2018	No. of observations	7						7
		No. of individuals	8						8
	2020	No. of observations							0
		No. of individuals							0
	2021	No. of observations							0
		No. of individuals							0



Species	Year	Standardised	Jan	Feb	Mar	Oct	Nov	Dec	Totals	
Kestrel	2016	No. of observations							0	
		No. of individuals							0	
	2017	No. of observations							0	
		No. of individuals							0	
	2018	No. of observations		1					1	
		No. of individuals		1					1	
	2020	No. of observations								0
		No. of individuals								0
2021	No. of observations		1	1					2	
	No. of individuals		1	1					2	
Sparrowhawk	2016	No. of observations							0	
		No. of individuals							0	
	2017	No. of observations							0	
		No. of individuals							0	
	2018	No. of observations		1					1	
		No. of individuals		1					1	
	2020	No. of observations						9		9
		No. of individuals						10		10
2021	No. of observations	6	11	9					26	
	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 where 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	
Wigeon	2016	No. of observations												0
		No. of individuals												0
	2017	No. of observations	1										1	
		No. of individuals	15										15	
Mallard	2016	No. of observations						2						2
		No. of individuals						5						5
	2017	No. of observations		1	2								3	
		No. of individuals		3	8								11	
Moorhen	2016	No. of observations						2	1					3
		No. of individuals						3	2					5
	2017	No. of observations		1	1								2	
		No. of individuals		2	2								4	
Water Rail	2016	No. of observations						1						1
		No. of individuals						1						1
	2017	No. of observations											0	
		No. of individuals											0	
Shaded cells are those months where no surveys were undertaken.														