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Legend
Approximate locations and conservation status
of breeding territories

- Amber listed
- Red listed

Buffers

- 100m
- 250m

Proposed turbine location

- ⊙

- D. = Duncock
- LI = Linnet
- MP = Meadow pipit
- S. = Skylark
- ST = Song thrush
- WW = Willow warbler

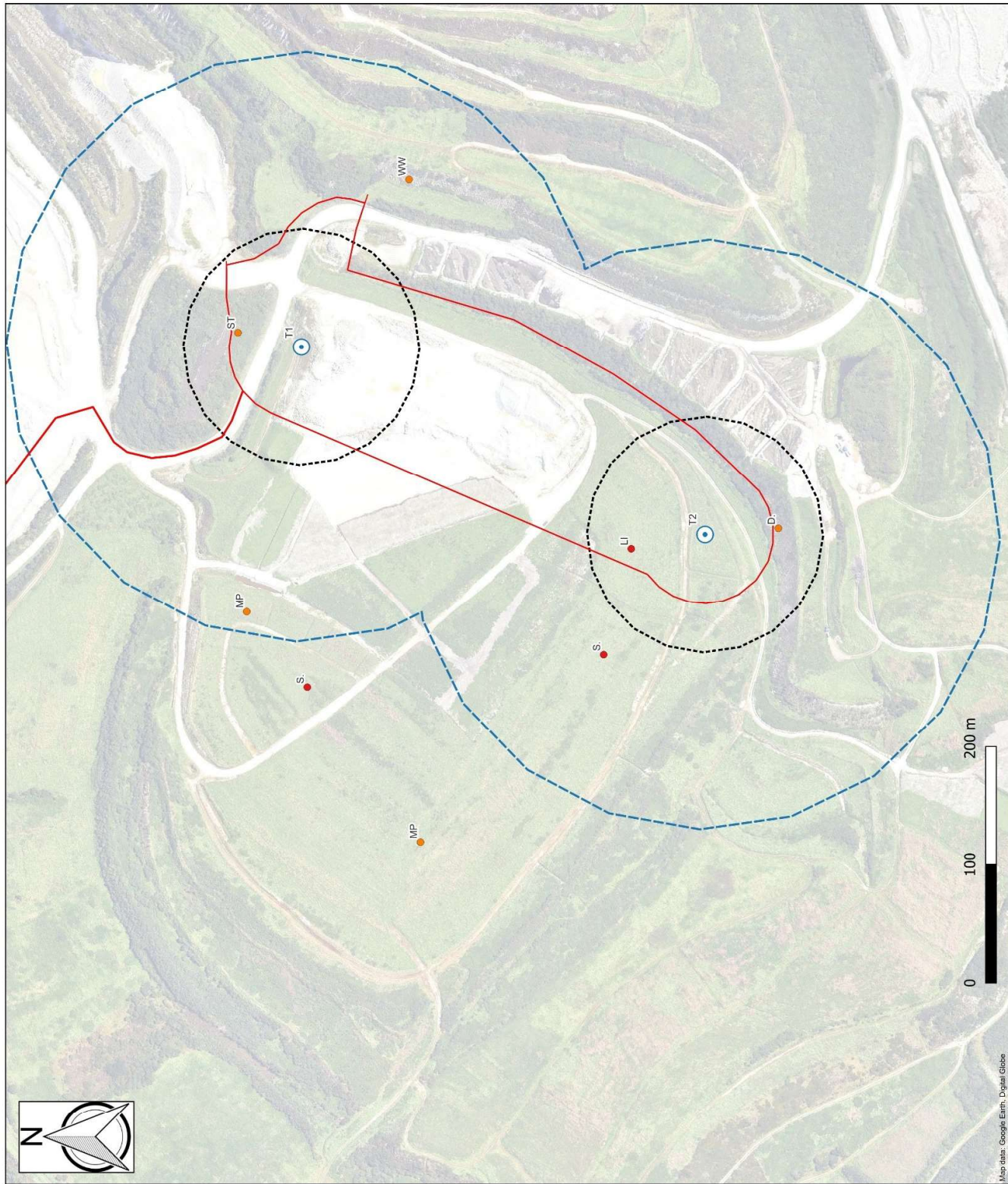
Title: BBS results - breeding
territories of notable species

Project: Dubbers turbines

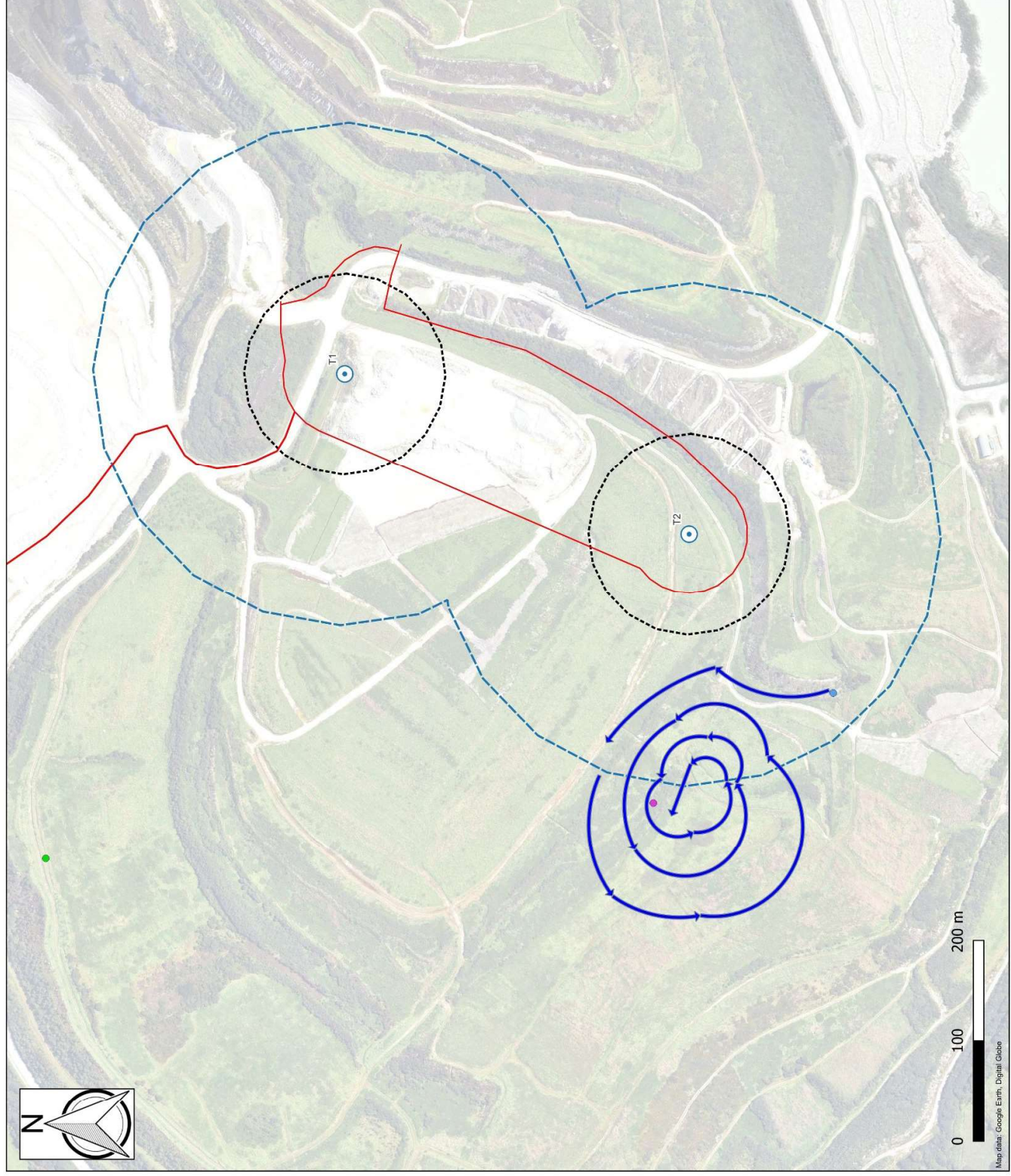
Checked by: CDH

Version: 01

Date: 07/11/2025



- Legend**
- Nightjar activity
 - Churring
 - Foraging
 - Nest site (suspected)
 - ➔ Flightlines
 - Buffer
 - 100m
 - 250m



Title: Nightjar survey results map

Project: Dubbers turbines

Checked by: CDH

Version: 01

Date: 28/10/2025

- Legend**
- VP survey (blade length +500m)
 - Proposed turbine location
 - VP surveyor location
 - Buzzard flight lines

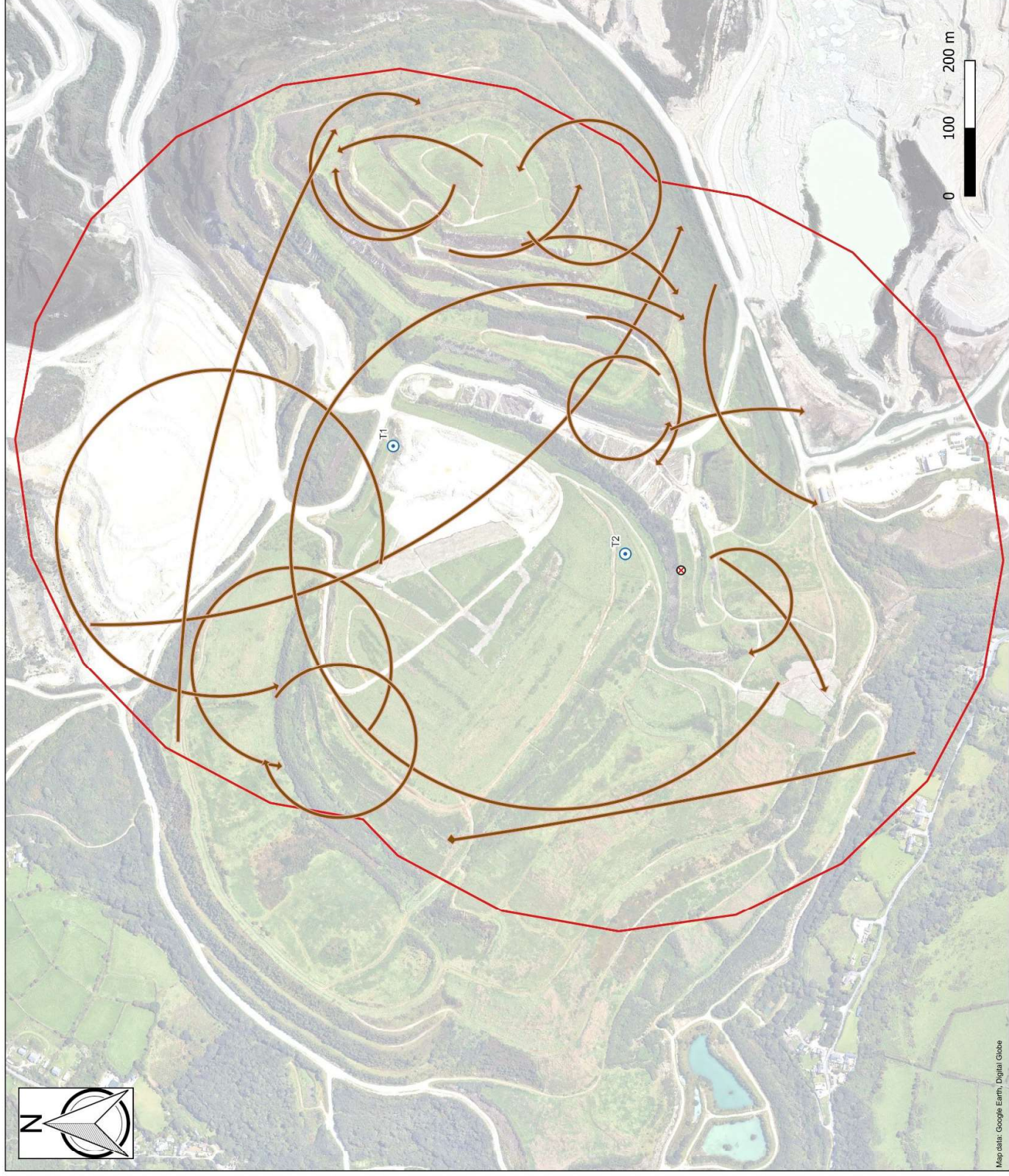
Title: Breeding season VP - Buzzard flightlines

Project: Dubbers turbines, Cornwall

Checked by: CDH

Version: 01

Date: 06/11/2025



Legend

-  VP survey (blade length +500m)
-  Proposed turbine location
-  VP surveyor location
-  Common gull flight lines

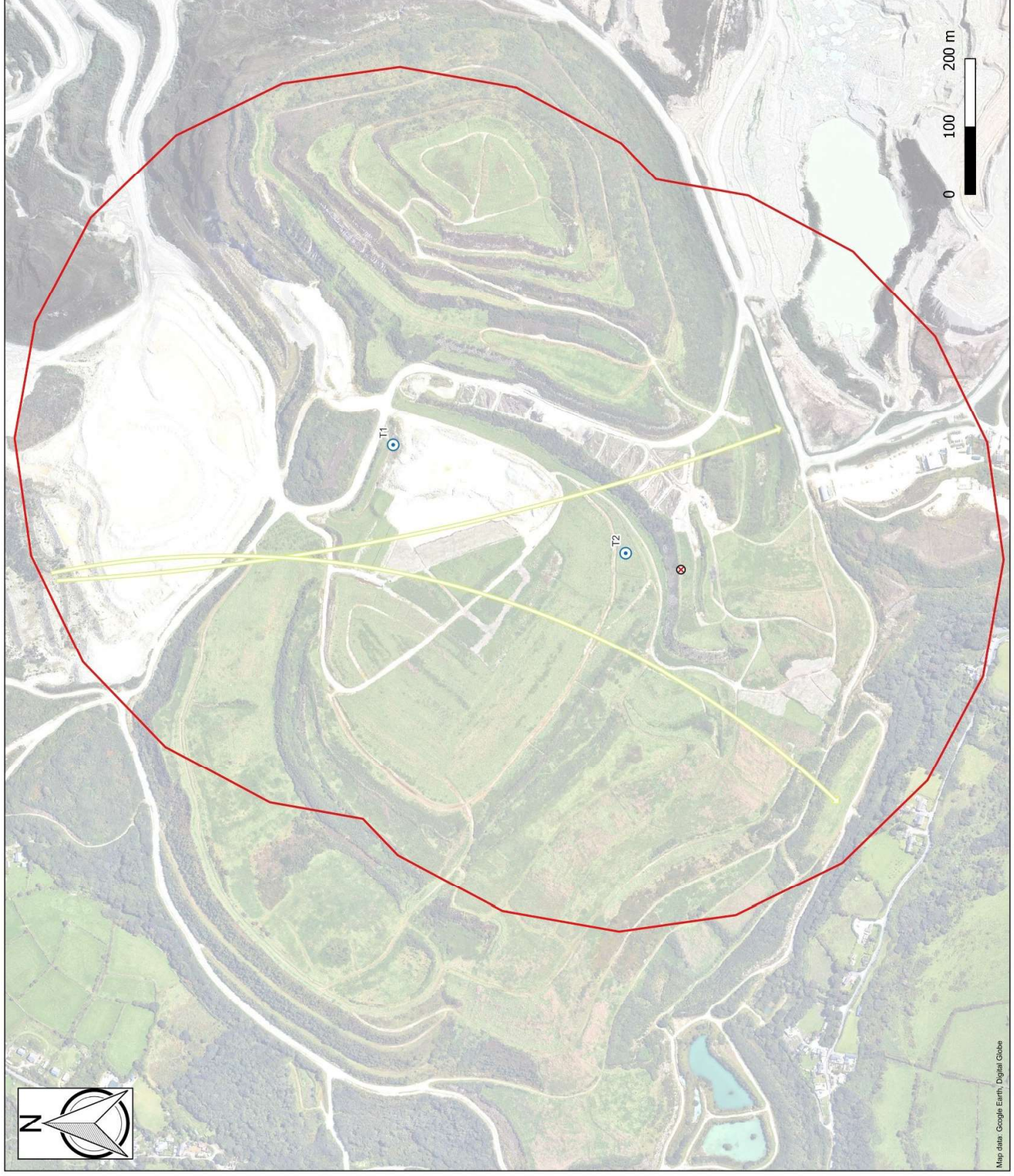
Title: Breeding season VP -
Common gull flight lines

Project: Dubbers turbines, Cornwall

Checked by: CDH

Version: 01

Date: 07/11/2025



- Legend**
- VP survey (blade length +500m)
 - Proposed turbine location
 - VP surveyor location
 - Green sandpiper flight lines

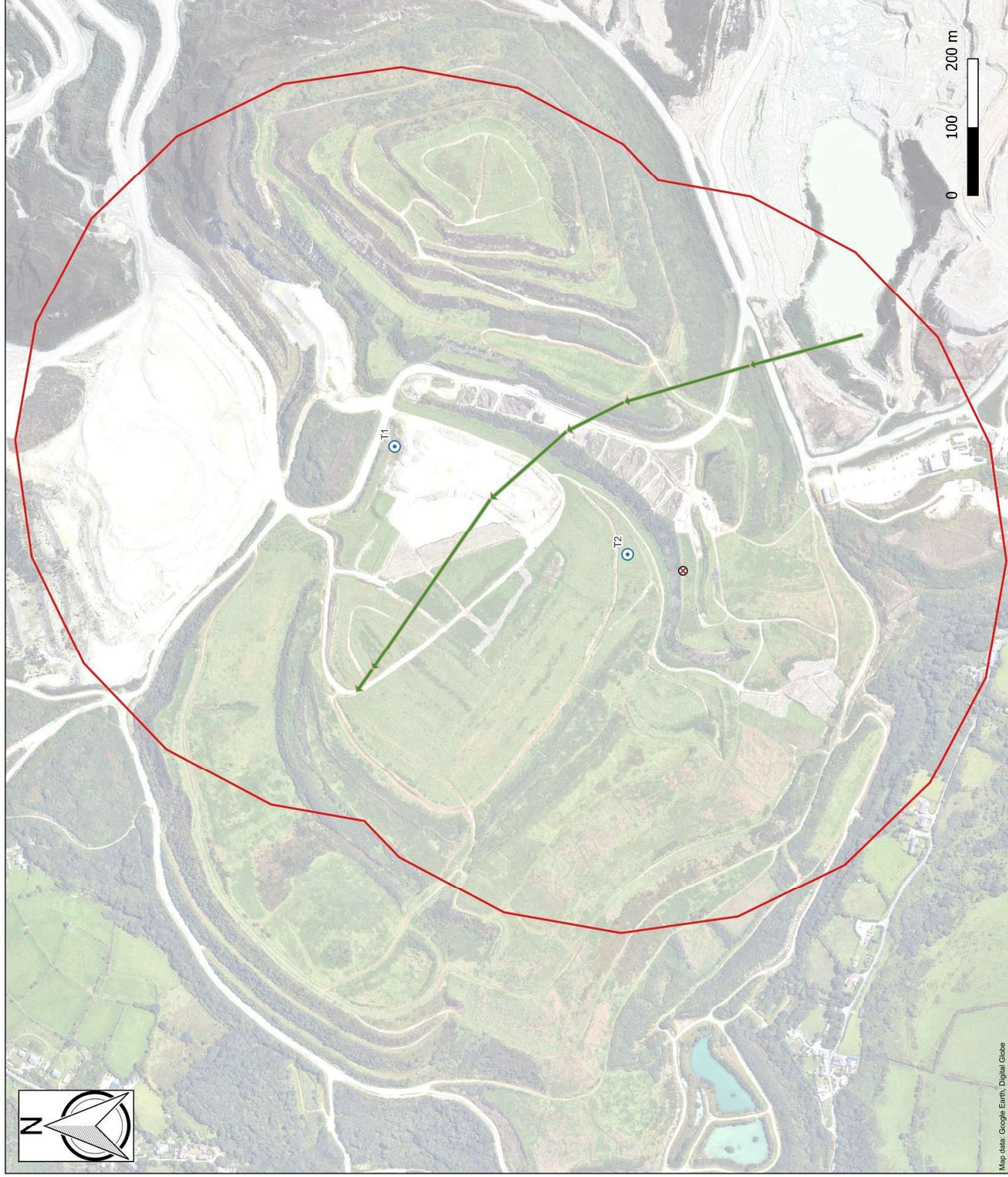
Title: Breeding season VP - Green
sandpiper flight lines

Project: Dubbers turbines, Cornwall

Checked by: CDH

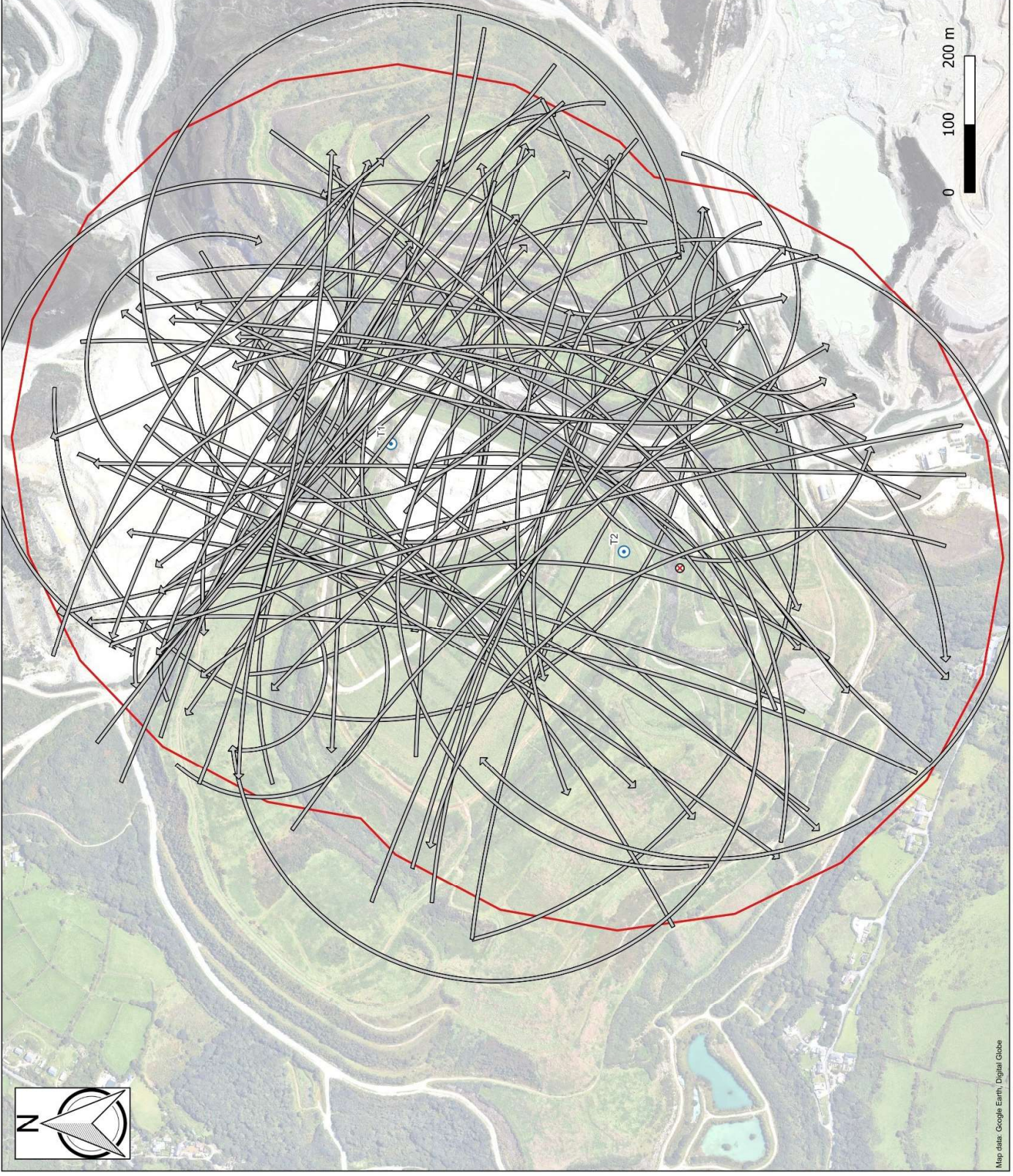
Version: 01

Date: 07/11/2025



Legend

- ▭ VP survey (blade length +500m)
- ⊙ Proposed turbine location
- ⊙ VP surveyor location
- Herring gull flight lines



Title: Breeding season VP - Herring gull flight lines

Project: Dubbers turbines, Cornwall

Checked by: CDH

Version: 01

Date: 07/11/2025

- Legend**
-  VP survey (blade length +500m)
 -  Proposed turbine location
 -  VP surveyor location
 -  Kestrel flight lines

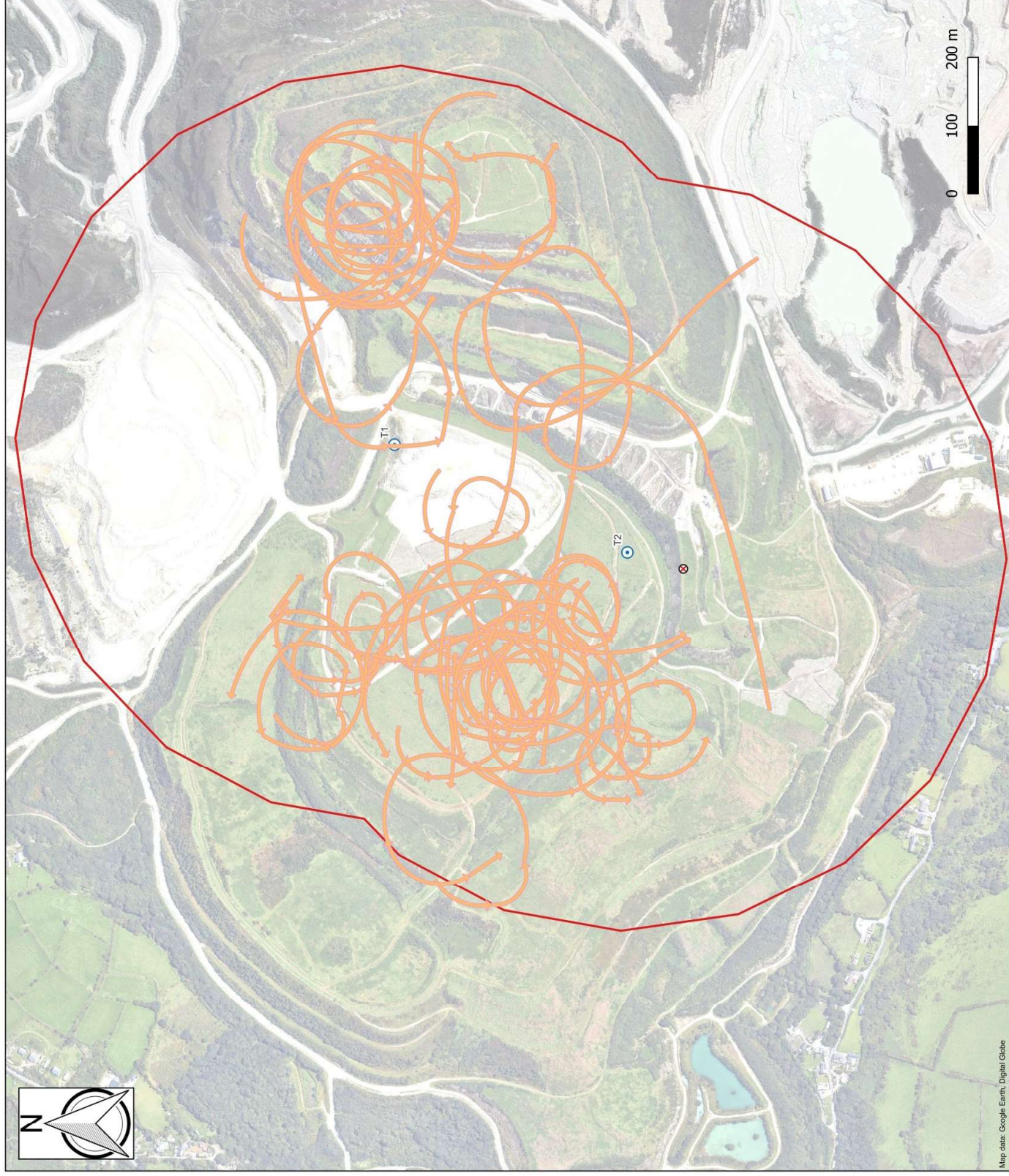
Title: Breeding season VP - Kestrel
flight lines

Project: Dubbers turbines, Cornwall

Checked by: CDH

Version: 01

Date: 07/11/2025



- Legend**
- VP survey (blade length +500m)
 - Proposed turbine location
 - VP surveyor location
 - Lesser black-backed gull flight lines

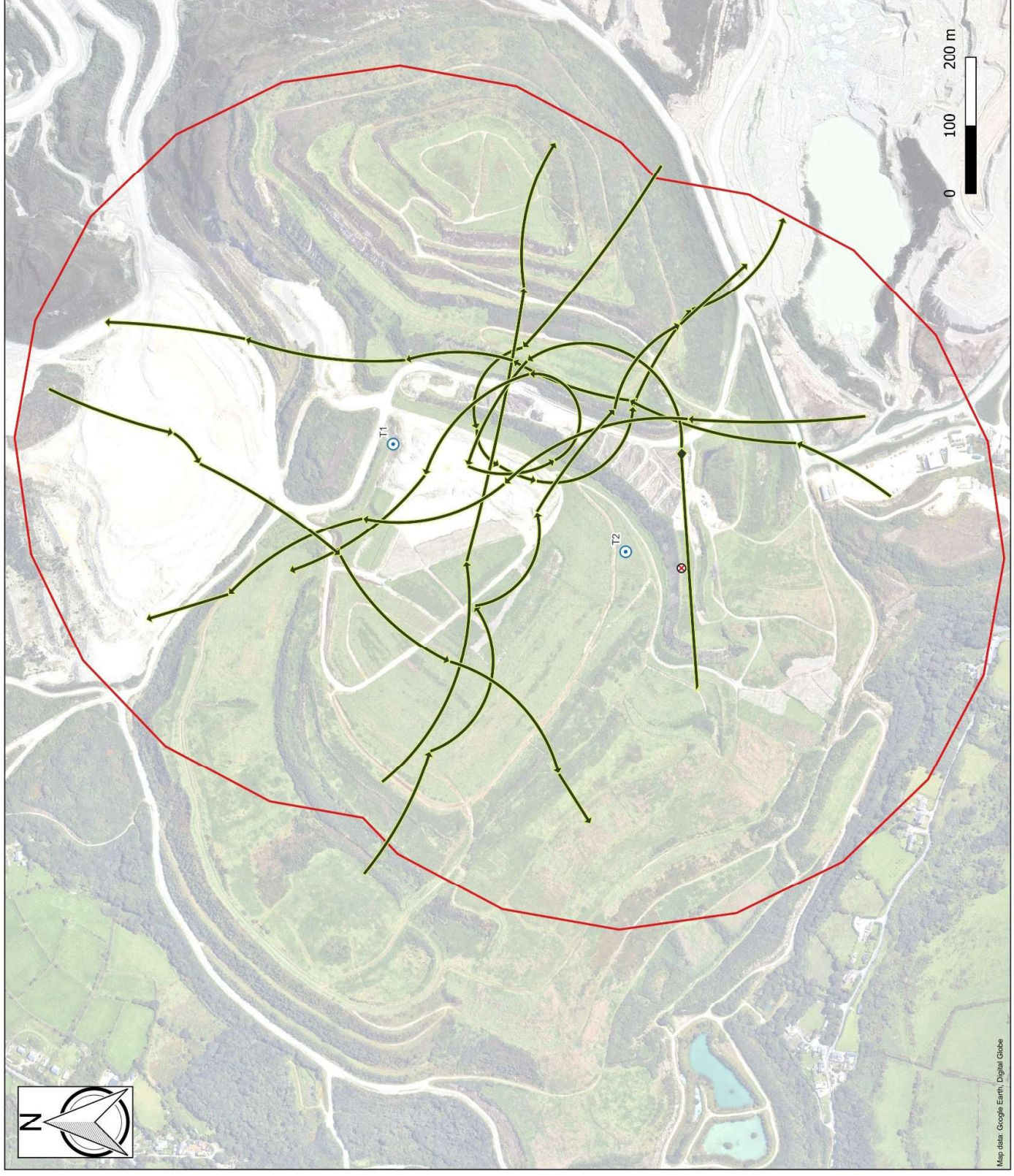
Title: Breeding season VP - Lesser
black-backed gull flight lines

Project: Dubbers turbines, Cornwall

Checked by: CDH

Version: 01

Date: 07/11/2025



- Legend**
- ▭ VP survey (blade length +500m)
 - ⊙ Proposed turbine location
 - ⊗ VP surveyor location
 - Mallard flight lines

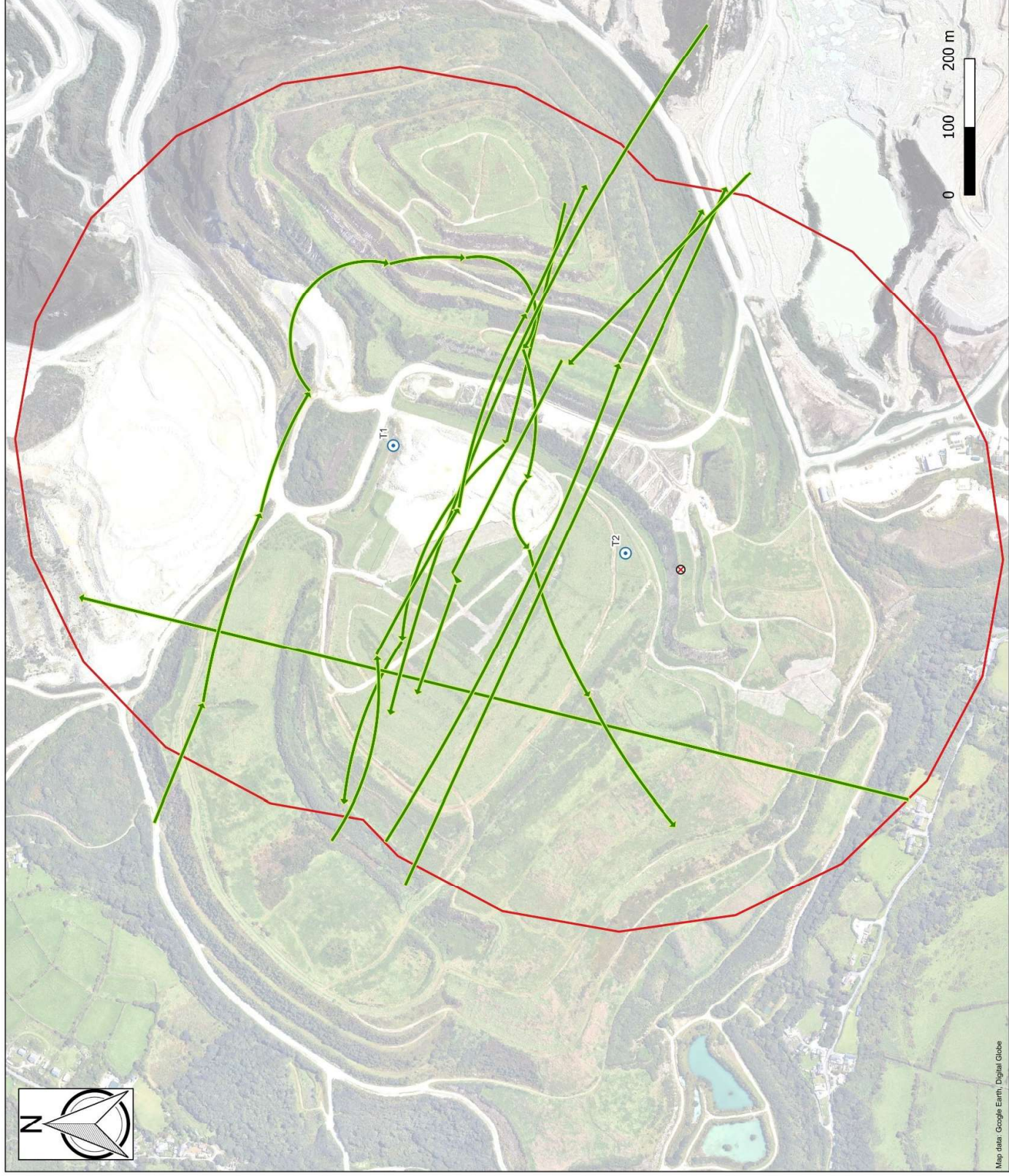
Title: Breeding season VP - Mallard flight lines

Project: Dubbers turbines, Cornwall

Checked by: CDH

Version: 01

Date: 07/11/2025



- Legend**
- VP survey (blade length +500m)
 - Proposed turbine location
 - VP surveyor location
 - Peregrine flight lines

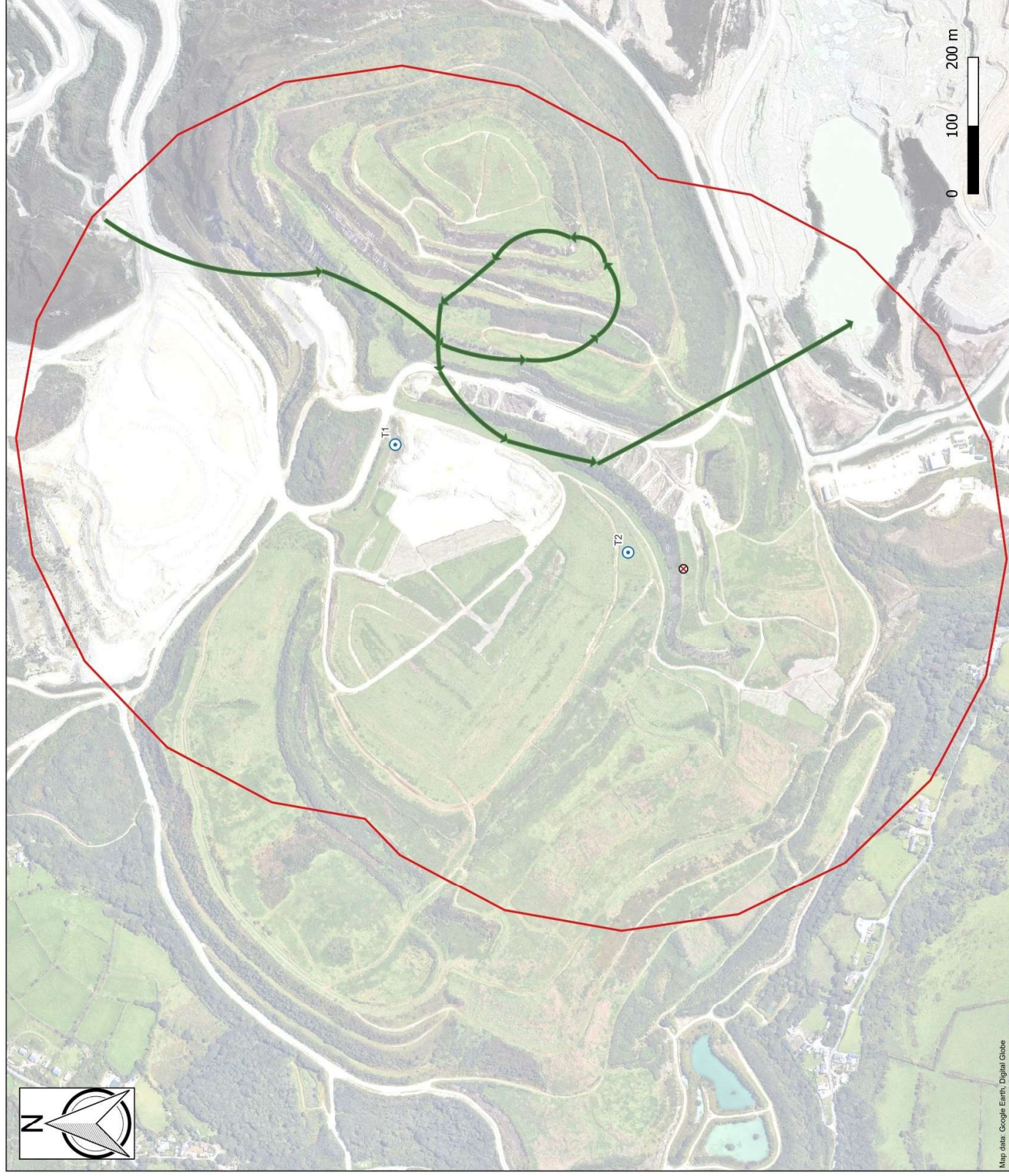
Title: Breeding season VP -
Peregrine flight lines

Project: Dubbers turbines, Cornwall

Checked by: CDH

Version: 01

Date: 07/11/2025



- Legend**
- VP survey (blade length +500m)
 - Proposed turbine location
 - VP surveyor location
 - Sparrowhawk flight lines

Title: Breeding season VP -
Sparrowhawk flight lines

Project: Dubbers turbines, Cornwall

Checked by: CDH

Version: 01

Date: 07/11/2025



Breeding season - Buzzard

[illegible]

Breeding season – Common gull

COLLISION RISK MODEL																													
Required input data is in		orange boxes		boxes are for information only, to show variables used at each stage																									
Calculated output is in		blue boxes																											
		green																											
Bird data				Windfarm data				Turbine data				Value																	
Species name		Common gull		Site name		Dubbers		Model		Value		Units																	
Bird length		L 0.41		Latitude		T 50.6		Hub height		Vestas 4.2		m																	
Wingspan		w 1.2		No of turbines		w 2		Rotor radius		R 53		m																	
Bird flight speed		v 13.5		Width of windfarm		w		No of blades		b 3		rpm																	
Flight type, flapping or gliding		flapping						Rotation speed		C 15		rpm																	
% of flights upwind/downwind		50%						Max blade width		C 4		m																	
Nocturnal activity ranking 1-5		2						Blade pitch		A 25		degrees																	
Nocturnal activity factor		f ₀₋₂₄ 25%						Risk height range		18-136		m																	
normal approach																													
Set to 'normal approach' to use survey data on bird density																													
Set to 'birds on migration' to use 'Migrant collision risk' sheet in place of Stage A																													
Stage A																													
Daytime bird density		D ₀		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		year ave	
Proportion at rotor risk height		Q ₀		0		0		0.0008		0.0008		0.0008		0.0008		0.0008		0.0008		0.0008		0		0		0		0.0005	
At latitude 50.6				264.3		280.0		367.1		413.1		479.3		491.5		495.8		450.5		380.6		334.0		271.3		250.3		4477.8	
Daylight hours per month				479.7		392.0		376.9		306.9		264.7		228.5		248.2		233.5		339.4		410.0		448.7		493.7		4282.2	
Nighttime hours per month																													
Stage B																													
No of turbines		T 2																											
Rotor radius		R 53																											
Total rotor frontal area		A ₀ 21872																											
Nocturnal activity factor		f ₀₋₂₄ 25%																											
Bird flight speed		v 13.5																											
Projected number of rotor transits		N ₀ 21872																											
Stage C																													
No of blades		b 3		Bird length		l 0.41		m																					
Rotation speed		ω 15		Wingspan		w 1.2		m																					
Rotor radius		R 53		Bird flight speed		v 13.5		m s ⁻¹																					
Max blade width		C 4		Flight type		flapping		50%																					
Pitch		α 25		% of flights upwind/downwind		50%																							
Blade profile		see Blade profile sheet																											
Single transit risk		S ₀ 11.48%																											
Weighted mean		W ₀ 5.20%																											
Stage D																													
Proportion of time operational		Q ₀		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		year ave	
				85.0%		85.0%		85.0%		85.0%		85.0%		85.0%		85.0%		85.0%		85.0%		85.0%		85.0%		85.0%		85.0%	
Collision rates before avoidance				0.00		0.00		0.24		0.25		0.28		0.28		0.29		0.27		0.24		0.00		0.00		0.00		2	
Stage E																													
Allow for large array correction?		w		No		0																							
Width of windfarm				large correction		100.00%		100.00%		100.00%		100.00%		100.00%		100.00%		100.00%		100.00%		100.00%		100.00%		100.00%		100.00%	
Avoidance rates modelled				95.00%		98.00%		99.00%		99.00%		99.00%		99.00%		99.00%		99.00%		99.00%		99.00%		99.00%		99.00%		99.00%	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
Collision rates allowing for avoidance				0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00					

Breeding season – Green sandpiper

COLLISION RISK MODEL		Required input data is in Calculated output is in		orange blue green		boxes boxes boxes are for information only, to show variables used at each stage												
Bird data		Value	Units	Windfarm data				Value	Units	Turbine data				Value	Units			
Species name		Green sandpiper				Site name				Vestas 4.2								
Bird length		L	0.23	m				Hub height				76.5				m		
Wingspan		w	0.4	m				No of turbines				59				m		
Bird flight speed		v	12.3	m s ⁻¹				T				3				rpm		
Flight type, flapping or gliding				flapping				w				15				rpm		
% of flights upwind/downwind			50%	50%								4				m		
Nocturnal activity ranking 1-5			2									25				degrees		
Nocturnal activity factor		f _{act}	25%									18-136				m		
normal approach		Set to 'normal approach' to use survey data on bird density																
Stage A		Set to 'birds on migration' to use 'Migrant collision risk' sheet in place of Stage A																
Daytime bird density		D ₀		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	year ave		
Proportion at rotor risk height		Q ₀	100.00%	0	0	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0	0	0	0.0000		
At latitude 50.6				264.3	280.0	367.1	413.1	479.3	491.5	495.8	450.5	380.6	334.0	271.3	250.3	4477.8		
Stage B		Nighttime hours per month																
No of turbines		T	2															
Rotor radius		R	59 m															
Nocturnal activity factor		f _{act}	25%															
Bird flight speed		v	12.3 m s ⁻¹															
Stage C		Projected number of rotor trans																
No of blades		b	3															
Rotation speed		0	15 rpm															
Rotor radius		R	59 m															
Max blade width		C	4 m															
Pitch		A	25 degrees															
Blade profile			see Blade profile sheet															
Stage D		Single transit risk																

Breeding season – Herring gull

[illegible]

Breeding season - Kestrel

COLLISION RISK MODEL																		
Required input data is in		orange		boxes		boxes are for information only, to show variables used at each stage												
Calculated output is in		blue		boxes														
		green																
Bird data		Value	Units	Windfarm data				Value	Units	Turbine data							Value	Units
Species name Bird length Wingspan Bird flight speed Flight type, flapping or gliding % of flights upwind/downwind Nocturnal activity ranking 1-5 Nocturnal activity factor	Kestrel			Dubbers						Vestas 4.2								
	L	0.34	m	Latitude				50.6	degrees	Hub height							76.5	m
	W	0.78	m	T				2	km	Rotor radius							59	m
	V	10.1	m s ⁻¹	w						No of blades							3	
	f _{u,d}	flapping	50%							Rotation speed							15	rpm
Nocturnal activity ranking 1-5		1	50%							Max blade width							4	m
Nocturnal activity factor		f _{u,d}	0%							Blade pitch							25	degrees
										Risk height range							18-136	m
normal approach																		
Set to 'normal approach' to use survey data on bird density																		
Set to 'birds on migration' to use 'Migrant collision risk' sheet in place of Stage A																		
Stage A				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	year ave		
Daytime bird density	D _a	birds/km ²	0	0	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0	0	0	0.0333		
Proportion at rotor risk height	Q _{AR}	34.74%	264.3	280.0	367.1	413.1	479.3	491.5	495.8	450.5	380.6	334.0	271.3	250.3	4477.8			
At latitude 50.6		Daylight hours per month	479.7	392.0	376.9	306.9	264.7	228.5	248.2	293.5	339.4	410.0	448.7	493.7	4282.2			
Stage B																		
No of turbines	T	2																
Rotor radius	R	59 m																
		Total rotor frontal	21872															
Nocturnal activity factor	f _{u,d}	0%																
Bird flight speed	V	10.1 m s ⁻¹																
		Projected number of rotor transi																
Stage C				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	year total		
No of blades	b	3	Bird length	0.34	m													
Rotation speed	Q	15 rpm	Wingspan	0.76	m													
Rotor radius	R	59 m	Bird flight speed	10.1	m s ⁻¹													
Max blade width	C	4 m	Flight type	flapping	50%													
Pitch	λ	25 degrees	% of flights upwind/downwind															
Blade profile		see Blade profile sheet	13.18%															
		Single transit risk	upwind	6.49%														
			downwind	9.34%														
			weighted mean															
Stage D				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	year ave		
Proportion of time operational	Q _{tr}		85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%		
			Collision rates before avoidance															
Stage E				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	year total		
Allow for large array correction?	w	No	0.00	0.00	11.17	12.57	14.58	14.96	15.09	13.71	11.58	0.00	0.00	0.00	0.00	94		
width of windfarm		0 km	Collision rates allowing for avoidance															
		large correction	0.00	0.00	0.56	0.63	0.73	0.75	0.75	0.69	0.58	0.00	0.00	0.00	0.00	per year		
Avoidance rates modelled		95.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	4.7		
		98.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	1.9		
		99.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.9		
		99.50%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.5		

Breeding season – Lesser black-backed gull

COLLISION RISK MODEL		Required input data is in		orange		boxes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Breeding season - Mallard

[illegible]

Breeding season – Peregrine

[illegible]

Breeding season – Sparrowhawk

[illegible]