

Rampion 2 Wind Farm

Category 6: Environmental Statement

Volume 4, Appendix 22.13: Breeding bird survey

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1. Introduction

1.1 Background

- 1.1.1 This Appendix should be read in conjunction with **Chapter 22: Terrestrial ecology and nature conservation, Volume 2** (Document Reference: 6.2.22) of the Environmental Statement (ES) which is provided in support of the delivery of an Environmental Impact Assessment (EIA) associated with the Rampion 2 Offshore Wind Farm, hereafter referred to as the 'Proposed Development' or 'Rampion 2'.
- 1.1.2 This Appendix describes the survey methodologies used and summaries the results of the breeding bird surveys undertaken in 2021 and 2023 within proximity to proposed DCO Order Limits; with emphasis on the indicative onshore cable corridor, onshore substation site Oakendene, trenchless crossing compounds, temporary construction compounds and a 50m buffer immediately surrounding these options.

1.2 Purpose of this appendix

- 1.2.1 The purpose of this Appendix is to present the results of the breeding bird assessment which was undertaken to identify and assess the assemblage of breeding birds potentially impacted by the Proposed Development.
- 1.2.2 Surveys were completed within the breeding period between March and June in 2021 and 2023 (where breeding species are most likely to be encountered) following an adapted method based on the British Trust for Ornithology's (BTO's) Common Bird Census (CBC) methodology (Gilbert *et al.*, 1998).
- 1.2.3 The breeding bird surveys were designed to identify the distribution, density and activities of breeding birds within, and close to areas within the proposed construction area.

1.3 Structure of this appendix

- 1.3.1 This appendix is structured as follows:
- **Section 2: Methods;**
 - **Section 3: Results;**
 - **Section 4: Glossary of terms and abbreviations;**
 - **Section 5: References;**
 - **Annex A: Figures;**
 - **Annex B: Species recorded during breeding bird survey;**
 - **Annex C: Full survey details; and**
 - **Annex D: Territory mapping criteria**

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2. Methods

2.1 Desk study

- 2.1.1 An environmental desk study was undertaken to identify statutory designated sites of international and national importance for ornithology within 10km of the proposed DCO Order Limits, and non-statutory designated sites of ornithological importance within 5km of it. The search for statutory sites was carried out using the Multi-Agency Geographic Information for the Countryside (MAGIC) website (an internet-based Geographic Information Systems database provided by the Department for Environment, Foods and Rural Affairs (Defra) (Defra, 2023)) and for non-statutory sites through a data request to Sussex Biodiversity Record Centre (SxBRC). Information on the statutory designated sites identified was gathered from the websites of Natural England (Natural England, 2023) and the Joint Nature Conservation Committee (JNCC) (JNCC, 2023).
- 2.1.2 In addition to information on designated sites, species specific data was gathered from the Royal Society for the Protection of Birds (RSPB), Sussex Ornithological Society (SOS) and SxBRC within 2km of the proposed DCO Order Limits¹.

2.2 Breeding bird surveys

- 2.2.1 Breeding bird surveys were undertaken over two years between March and June 2021, and March and June 2023 inclusive. The purpose of the breeding bird survey was to collect data to confirm the typical distribution and assemblages of species present within the area surveyed (see **Section 3.1**).

Data collection locations

- 2.2.2 The survey focused on all habitats within 50m of the onshore cable corridor, the onshore substation site at Oakendene, trenchless crossing (TC) compounds and temporary construction compounds. The survey was undertaken based on the proposed DCO Order Limits.
- 2.2.3 For the purposes of the breeding bird survey, this area was divided into 16 survey areas. These survey areas received systematic coverage with surveyors working concurrently in nearby survey areas to avoid duplicate counting or overlap of adjacent recordings (**Figure 22.13.2, Annex A**). Data from all survey areas was combined for reporting purposes.
- 2.2.4 Area 1: Includes the onshore cable route and buffer between the landfall site at Climping and the trenchless crossing compound at Ferry Road. The area consists of a relatively uniform arable habitat with managed hedgerows.

¹ The exact distance varied for the record search provided by SOS as their data is specified by tetrad.

- 2.2.5 Area 2: Includes the onshore cable route and buffer between Ferry Road and the River Arun crossing. The area consists of arable habitat, intersected with wet ditches and managed hedgerows.
- 2.2.6 Area 3: Includes the onshore cable route and buffer between two railway crossings at Littlehampton / Wick and arable fields southwest of Lyminster. The area consists of a mosaic of arable / pastoral fields, wet ditches, hedgerows, and treelines.
- 2.2.7 Area 4: Includes the onshore cable route and buffer through the arable fields as the route turns east and passes south of Lyminster village, towards Poling. The area consists of arable habitat and crosses west to east via trenchless crossing under the A284 before being intersected by two further watercourse crossings.
- 2.2.8 Area 5: Includes the onshore cable route and buffer and four trenchless crossing compounds between Poling village and the crossing point of the trenchless crossing of the A27. The area consists of a mixture of arable and pastoral habitat with managed hedgerows.
- 2.2.9 Area 6: Includes the onshore cable route and buffer from the A27 crossing in the south to the trenchless crossing location at the base of Sullington Hill. The area consists of a mosaic of arable and pastoral habitat, scrub, ancient woodland, woodland plantation and managed hedgerows. There are four trenchless crossing locations within this area including a trenchless crossing that undershoots the entire area of ancient woodland.
- 2.2.10 Area 7: Includes the onshore cable route and buffer between Sullington Hill Local Wildlife Site (LWS) in the south and the crossing of the A24. The area consists of a mixture of arable and pastoral habitat, chalk grassland and managed hedgerows.
- 2.2.11 Area 8: Includes the onshore cable route and buffer, the temporary construction compound and trenchless crossing compounds adjoining the A283 east of Washington. The area consists of a mix of grassland and plantation scrub, north of the A283 and is bordered on the west by a wet ditch.
- 2.2.12 Area 9: Includes the onshore cable route and buffer and trenchless crossing compounds south of the A283, east of Washington. The area consists of a mixture of arable and pastoral habitat, plantation woodland and managed hedgerows.
- 2.2.13 Area 10: Includes the trenchless crossing of Water Lane in the west and the onshore cable route and buffer southeast of Wiston. The area consists of a mixture of broadleaved semi-natural woodland; scrub; arable and pastoral habitat with managed hedgerows.
- 2.2.14 Area 11: Includes the onshore cable route and buffer southeast of Wiston, to the trenchless crossing of Spithandle Lane in the northeast. The area consists of a mixture of arable and pastoral habitat, interspersed with managed hedgerows, tree lines, scrub, plantation woodlands and broadleaved semi-natural woodland.
- 2.2.15 Area 12: Includes the onshore cable route and buffer north of Spithandle Lane, to the trenchless crossing of the River Adur, northeast of Ashurst. The area consists of mixed-use agricultural habitat, hedgerows, scrub and floodplain grazing marsh. There are three trenchless crossing locations within this Area.

- 2.2.16 Area 13: Includes the onshore cable route and buffer from the River Adur trenchless crossing to Shermanbury Grange, south of Partridge Green Road. The area consists of mixed-use agricultural habitat, floodplain grazing marsh, scrub and small woodland stands.
- 2.2.17 Area 14: Includes the onshore cable route and buffer, trenchless crossing compounds and crossings between Partridge Green Road, south of Shermanbury and Cowfold Stream trenchless crossing. The area consists of mixed-use agricultural habitat, grassland, animal paddocks, scrub and woodland stands.
- 2.2.18 Area 15: Includes the area between the trenchless crossing of the Cowfold Stream in the west, the onshore cable route and buffer and the Oakendene substation site. The area consists of a mixture of arable and pastoral habitat; scrub; managed hedgerows; plantation woodland; and semi-natural ancient woodland.
- 2.2.19 Area 16: Includes the onshore cable connection and buffer between the onshore Oakendene substation site and the existing National Grid Bolney substation. The Area consists of a mixture of arable and pastoral habitat; floodplain; scrub; semi-natural broadleaved woodland; animal paddocks and low grade, managed hedgerows.
- 2.2.20 Full survey details, including visit dates, times and weather conditions are available in **Table C-1, Annex C**.

Data collection methods

Breeding bird surveys

- 2.2.21 The surveys followed an adapted method based on the BTO's CBC methodology (Gilbert *et al.*, 1998), whereby the observer undertakes a census of all species present. The location of each bird detected (visually and / or aurally) was mapped using standard two-letter BTO Codes, and bird activity was recorded using standard behaviour codes (Marchant, 1983).
- 2.2.22 Survey visits during both years (2021 and 2023) were undertaken between late-March and June, at broadly two-week intervals from the previous visit.
- 2.2.23 Six survey visits² were undertaken during the 2021 breeding season: one in late-March, two in April [early to mid-month and late in the month], two in May, and one in June.
- 2.2.24 Six survey visits were undertaken during the 2023 breeding season: one in late-March, two in April [early to mid-month and late in the month], two in May, and one in June.
- 2.2.25 All surveys were undertaken in favourable conditions, avoiding periods of heavy rain, or strong or cold winds, therefore minimising variation in bird activity levels due to weather conditions.

² While eight to ten visits are the norm for CBC sites being monitored over the long-term, where territory mapping is being used for assessing potential environmental impacts, it is generally accepted that three to five visits are sufficient to determine the numbers and densities of breeding birds with reasonable accuracy.

- 2.2.26 Visits started at least half an hour after dawn and were completed no later than midday, with an exception during visit five 2021 and visit two in 2023 (See Deviations, constraints and limitations section (**paragraphs 2.2.32 to 2.2.37**)). Surveyors started at the same time and remained in contact throughout the survey to minimise the risk of double counting at survey area boundaries.
- 2.2.27 A different route was used on each survey visit to ensure that certain parts of the survey area did not receive systematically better coverage due to a possible decline in song output later in the morning.
- 2.2.28 Full survey details, including dates, timings and weather conditions can be found in **Annex C, Table C-1**.

Territory mapping

- 2.2.29 On completion of the field survey, results were collated and analysed, and provided as maps of indicative territory centre-points, made across all the visits within a survey season. Territory mapping analysis was based on criteria adapted from Amar et al. (2006) (See **Annex D**) and involved an experienced ornithologist looking for spatial groupings of song registrations.
- 2.2.30 No temporal restrictions have been applied, such that any grouping with more than one visit represented, or consisting of at least one registration of song, has been assessed as a territory. These data have been used to determine the number and distribution of species, and overall breeding assemblage within the survey area.
- 2.2.31 As territory locations were derived from a combination of each visit map (as per the CBC methodology (Gilbert et al., 1998)); it should be noted that they do not represent specific nest locations but indicative breeding territories.

Deviations, constraints and limitations

- 2.2.32 During 2021 there was a single deviation from the methodology during visit five on 20 May 2021. Surveys were carried out past Midday to avoid inclement and unsuitable weather that was due 21 May 2021. Surveys were completed by 13:30, 90 minutes after suggested timings – enabling full survey coverage during visit five.
- 2.2.33 During 2023 there was a single deviation from the methodology during visit two on 19 April 2023. Due to restrictive land access, surveys were confined to a single day and surveys were carried out past Midday to ensure as much coverage as available was achieved. Surveys were completed by 13:00, 60 minutes after the suggested timings.
- 2.2.34 Access to private land for the purposes of survey was restricted in some cases both in space and time; although coverage was enhanced through the use of Public Rights of Way and the Public Highway. Overall the coverage within the survey area is considered adequate³ along 76.4% of the proposed cable route (See **Figure 22.13.2**), including: All temporary construction compounds; 12 of 14 trenchless crossing compounds and the onshore substation site at Oakendene.

³ Adequate coverage is based on four or more survey visits throughout the breeding bird survey season (March to June inclusive).

There are gaps in the data particularly within Survey Areas 3, 4, 5, 8, 9, 10, 11 and 12.

- 2.2.35 The two trenchless crossing compounds with fewer than four visits of coverage were to the north-west of Wick (referenced as RVX-01 and RLX-01 within **Appendix 4.1: Crossing Schedule, Volume 4** (Document Reference: 6.4.4.1)).
- 2.2.36 Health and safety concerns, relating to cattle or livestock within fields presented a constraint in some areas across both survey years (2021 and 2023), however it is considered that the lack of suitable breeding habitat generally within these habitat types reduces the risk of data deficiency.
- 2.2.37 Despite the deviations, constraints and limitations described above, the dataset is considered to provide a robust approximation of the breeding bird population present along the indicative onshore cable corridor, temporary construction compounds, trenchless crossing compounds and the onshore substation site at Oakendene. This conclusion can be drawn as the constraints and limitations faced within the breeding bird assessment were not extensive enough to negatively influence the territory mapping exercise undertaken following the completion of the surveys. Further, the habitats where survey coverage cannot be considered adequate are habitats of limited importance to breeding birds such as open arable land, horse paddocks or areas of hardstanding.



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3. Results

3.1 Statutory designated sites of ornithological importance

- 3.1.1 Six designated sites were identified within the search area as sites of ornithological importance, principally designated for breeding species. See **Table 3-1** below.
- 3.1.2 One statutory designated site of international importance during the breeding season⁴ was identified within 10km of the proposed DCO Order Limits, Solent and Dorset Coast SPA; details of the site are shown in **Table 3-1**. Five nationally designated sites of ornithological importance during the breeding season were identified within 5km of the proposed DCO Order Limits. None of these sites overlap with the proposed DCO Order Limits.

Table 3-1 Details of statutory designated sites of ornithological importance

Site name	Designated features	Distance and direction from the proposed DCO Order Limits
Internationally important sites		
Solent and Dorset Coast Special Protection Area (SPA)	Sandwich tern (breeding), Common tern and little tern (breeding)	2.3km south-west
Nationally important sites		
Amberley Wild Brooks Site of Special Scientific Interest (SSSI)	Redshank (breeding) Bewick's swan, shoveler and teal (non-breeding). Breeding bird assemblage – mixed lowland damp grassland, woodland.	4.8km north-west
Arundel Park SSSI	Breeding bird assemblage – mixed: scrub, woodland	2.9km north-west
Chanctonbury Hill SSSI	Breeding bird assemblage – mixed: lowland damp grassland, woodland	0.7km south-east

⁴ It is recognised that there are other designated sites with ornithological interest in the area, however these support non-breeding features and have therefore been excluded from this appendix.

Site name	Designated features	Distance and direction from the proposed DCO Order Limits
Cissbury Ring SSSI	Breeding bird assemblage – mixed: scrub, woodland	4.2km south
Sullington Warren SSSI	Breeding bird assemblage – mixed: scrub, woodland	0.7km east

3.1.3 Solent and Dorset Coast SPA lies 2.3km south-west of the landfall site for the onshore cable corridor at the nearest point; Middleton-on-Sea. The SPA is noted for importance to breeding tern populations, qualifying under Article 4.1 (79/409/EEC) during the breeding season as the area regularly supports: sandwich tern - 4.01% of the GB breeding population (5-year mean 2010-2014, 441 pairs). common tern - 4.77% of the GB breeding population (5-year mean 2009-2014, 492 pairs). little tern - 3.31% of the GB breeding population (5-year mean 2009-2014, 63 pairs).

3.1.4 Breeding tern species designated within the Solent and Dorset Coast SPA can be discounted from the breeding bird assessment as there is no suitable breeding habitat within the proposed DCO Order Limits

3.2 Non-statutory designated sites of ornithological importance

3.2.1 Non-statutory designated sites of ornithological importance were identified within data provided by SxBRC.

3.2.2 **Table 3-2** provides details on non-statutory designated sites of ornithological importance within 5km of the proposed DCO Order Limits. There are nine non-statutory designated sites of ornithological importance during the breeding season within 5km of the proposed DCO Order Limits.

Table 3-2 Details of non-statutory designated sites of ornithological importance within 5km of the proposed DCO Order Limits

Site name	Description ⁵	Distance and direction from the proposed DCO Order Limits
River Adur Water Meadows &	Floodplain woodland with notable rarity and heronry, neutral grassland water meadows with ornithological interest and ditches of botanical interest.	1.0km south-east

⁵ Description is copied from the summary provided on the designation information provided for each site by SxBRC.

Site name	Description ⁵	Distance and direction from the proposed DCO Order Limits
Wyckham Wood LWS		
Wiston Ponds LWS	Pond with well-developed marginal vegetation in parkland with notable populations of amphibians and birds.	1.3km south-east
Arun Valley, Watersfield to Arundel LWS	This section of the River Arun and its floodplain forms an extensive tract of wetland, a nationally declining habitat. Although many of the flood meadows have been improved, the wet grassland is important for breeding and wintering waders and wildfowl. There is a good network of ditches, some of which are very important botanically. The site is important for birds, dragonflies, water beetles, snails and plants, and supports many rare and declining species. The unimproved meadows of Watersfield Brooks are of great botanical interest.	1.5km north-west
The Sanctuary, High Salvington LWS	Mosaic of species rich scrub, secondary woodland and chalk grassland and an area of herb rich chalk grassland with botanical, ornithological and invertebrate interest.	2.5km east
Broadmare Common	Mosaic of poor fen, willow carr and deciduous woodland. It supports a number of birds of conservation concern and rare plants.	3.2km south-east
Kneppmill Pond, the River Adur & Lancing Brook	Kneppmill Pond is a large area of open water with well-developed marginal vegetation and extensive tall fen. It is of County importance for wintering and breeding birds and includes a heronry	3.8km north-west
Pond Lye	This site includes a pond with extensive areas of sedge swamp around the margins and a species-rich neutral grassland. A number of locally uncommon plants are found in the meadow. The Pond is of great ornithological importance, particularly for its breeding birds.	4.3km east
Oreham Common	Mosaic of damp grassland, tall-herb wetland, ponds and scrub, of importance to birds,	4.3km south-east

Site name	Description ⁵	Distance and direction from the proposed DCO Order Limits
	amphibians, invertebrates, and likely also reptiles.	
Ham Farm Wood	Ancient woodland in urban area with botanical, ornithological and recreational value.	4.5km south-east

3.3 Species records

- 3.3.1 As part of the environmental desk study, species data for birds likely to be breeding within proximity of the onshore cable corridor was gathered from the RSPB, SOS and SxBRC. Stone curlew records were returned due to their status as a Schedule 1 listed breeding bird. Lapwing records were returned due to their local interest, with frequent breeding attempts within the Arun valley.
- 3.3.2 RSPB supplied one record of displaying stone curlew recorded in the last 10 years within the Scoping Boundary (RED, 2020). This record was in the area between Amberley and Burpham, in arable habitat. This record is >2km outside of the proposed DCO Order Limits; shielded from the onshore cable corridor by an escarpment and blocks of ancient woodland.
- 3.3.3 RSPB supplied 194 records of breeding lapwing recorded in the last 10 years including adults nesting, displaying and feeding, with chicks and juveniles also observed. Birds were noted in both grassland and arable habitats and were widespread across the area. SOS provided a further 323 breeding records of lapwing in the last 10 years, many of these records are associated with the Wildfowl and Wetlands Trust reserve at Arundel. The Tetrads that are known to support lapwing are shown on **Figure 22.13.3**. Many of these records are repeat observations of the same individuals / groups with multiple duplicated records.
- 3.3.4 SxBRC returned a total of 20,773 onshore records of 70 species considered notable⁶ during the breeding season (considered March to September inclusive) in the last ten years including:
- Thirty Schedule 1 listed species – avocet, barn owl, bearded tit, bittern, black redstart, black tern, black-tailed godwit, black-winged stilt, bluethroat, Cetti's warbler, common scoter, crossbill, firecrest, hobby, hoopoe, kingfisher, little ringed plover, merlin, osprey, pallid harrier, purple heron, quail, red kite, red-

⁶ The Sussex Notable Bird List consists of species that are particularly scarce or vulnerable to development. It includes species which are either on the Birds of Conservation Concern Red and Amber lists or Schedule 1 species known to have bred in Sussex, or have been recorded in summer and may breed in the future. This list does not therefore take account of all Species of Principal Importance but instead focuses on scarcely recorded specialist species.

necked phalarope, ruff, scaup, spoonbill, white-tailed eagle, whooper swan, woodlark;

- Five Species of Principal Importance (SPI) (Natural Environment and Rural Communities Act (NERC), 2006) – bittern, black-tailed godwit, common scoter, greater scaup and woodlark; and,
- 14 Birds of Conservation Concern⁹ (BoCC) Red-listed species – black-tailed godwit, common scoter, house martin, merlin, nightingale, pochard, red-necked phalarope, ringed plover, ruff, scaup, Slavonian grebe, swift, whinchat and woodcock.

3.3.5 Further details of SxBRC records can be found within [Appendix 22.2: Terrestrial Ecology Desk Study, Volume 4](#) (Document Reference: 6.4.22.1).

3.4 Breeding bird survey

3.4.1 A total of thirty-nine species were recorded breeding or holding territory during the breeding bird survey (See [Figure 22.13.4, Annex A](#)), of which:

- Two species listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended), Cetti's Warbler and firecrest;
- Nine species listed as SPI: Corn bunting, dunnock, lapwing, linnet, reed bunting, skylark, song thrush, starling and yellowhammer.
- Eight species recorded as BoCC red-listed species: Corn bunting, greenfinch, lapwing, linnet, nightingale, skylark, starling and yellowhammer.

3.4.2 [Table 3-3](#), below, presents the total number of territories for each species, along with any legislative protection or conservation status.

Table 3-3 Territory assemblage recorded during breeding bird surveys

BTO code	Species	Number of territories	Sch. 1 ⁷	SPI ⁸	BoCC ⁹
B.	Blackbird	40			Green

⁷ **Sch.1** = listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended). These species are afforded additional levels of protection making it an offence to intentionally or recklessly disturb at, or near an 'active nest'. Schedule 1 protection extends to the nest, eggs, and dependent young of a Schedule 1 species.

⁸ **SPI** = Species "of principal importance for the purpose of conserving biodiversity" covered under Section 41 (England) of the NERC Act (2006).

⁹ **BoCC Red list** = The background to the establishment of a 'traffic light system' of conservation concern for UK birds is discussed in Gregory *et al.* (2002). The updated criteria and lists are detailed in Stanbury *et al.* (2021). Broadly, 'Red-listed' species include those that are globally threatened, have suffered a historical population decline in the UK (between 1800 and 1995) or which have experienced rapid declines in their UK breeding population or contractions in their UK range of more than 50% over the past

BTO code	Species	Number of territories	Sch. 1 ⁷	SPI ⁸	BoCC ⁹
BC	Blackcap	32			Green
BT	Blue tit	28			Green
C.	Carrion crow	Present			Green
CB	Corn bunting	23		✓	Red
CC	Chiffchaff	40			Green
CH	Chaffinch	17			Green
CT	Coal tit	5			Green
CW	Cetti's warbler	1	✓		Green
D.	Dunnock	20			Amber
FC	Firecrest	3	✓		Green
G.	Green woodpecker	1			Green
GC	Goldcrest	1			Green
GJ	Greylag goose	1			Amber
GO	Goldfinch	8			Green
GR	Greenfinch	2			Red
GS	Great spotted woodpecker	1			Green
GT	Great tit	37			Green
K.	Kestrel	1			Amber
L.	Lapwing	1		✓	Red
LI	Linnet	2		✓	Red
LW	Lesser whitethroat	1			Green

twenty-five years. Amber-listed' species include any species on the European Red List (Critically Endangered, Endangered or Vulnerable), these are detailed in Stanbury *et al.* (2021).

BTO code	Species	Number of territories	Sch. 1⁷	SPI⁸	BoCC⁹
LT	Long-tailed tit	2			Green
MG	Magpie	1			Green
MP	Meadow pipit	1			Green
N.	Nightingale	5			Red
PH	Pheasant	present			Green
R.	Robin	87			Green
RB	Reed bunting	2		✓	Amber
RL	Red-legged partridge	Present			Green
RW	Reed warbler	5			Green
S.	Skylark	52		✓	Red
SD	Stock dove	5			Amber
SG	Starling	2		✓	Red
ST	Song thrush	19		✓	Amber
WH	Whitethroat	19			Amber
WP	Woodpigeon	18			Amber
WR	Wren	86			Amber
Y.	Yellowhammer	10		✓	Red

3.4.3 The onshore cable route corridor, buffer and trenchless crossings / temporary construction compounds have evolved in design to limit losses of habitats considered to be of most biodiversity value. From the landfall at Climping, the onshore cable corridor predominantly crosses arable and pastoral land of limited importance to breeding birds. Woodlands, wetlands and areas of continuous scrub synonymous with breeding bird activity are relatively infrequently encountered, resulting in a restricted species list.

3.4.4 There was a notable increase in both density and diversity of the breeding bird assemblage within the northern section of the proposed DCO Order Limits, centred around the large woodland / scrub and hedgerow mosaics, and within the River Adur and Cowfold Stream floodplains; in areas of suitable breeding habitat.

3.4.5 A full list of species observed during the breeding bird surveys is available in **Annex B**.

4. Glossary of terms and abbreviations

Table 4-1 Glossary of terms and abbreviations

Term (Acronym)	Definition
BoCC	Birds of Conservation Concern
BTO	British Trust for Ornithology
CBC	Common Bird Census
DCO	Development Consent Order
EIA	Environmental Impact Assessment
EEC	European Economic Community
ES	Environmental Statement
GB	Great Britain
ha	Hectare
HDD	Horizontal directional drilling
JNCC	Joint Nature Conservation Committee
km	Kilometre
LWS	Local Wildlife Site
MAGIC	Multi-Agency Geographic Information for the Countryside
NERC	Natural Environment and Rural Communities
RSPB	Royal Society for the Protection of Birds
SOS	Sussex Ornithological Society
SxBRC	Sussex Biodiversity Record Centre

Term (Acronym)	Definition
SPA	Special Protection Area
SPI	Species of Principal Importance
SSSI	Site of Special Scientific Interest
WACA	The Wildlife and Countryside Act 1981 (as amended)

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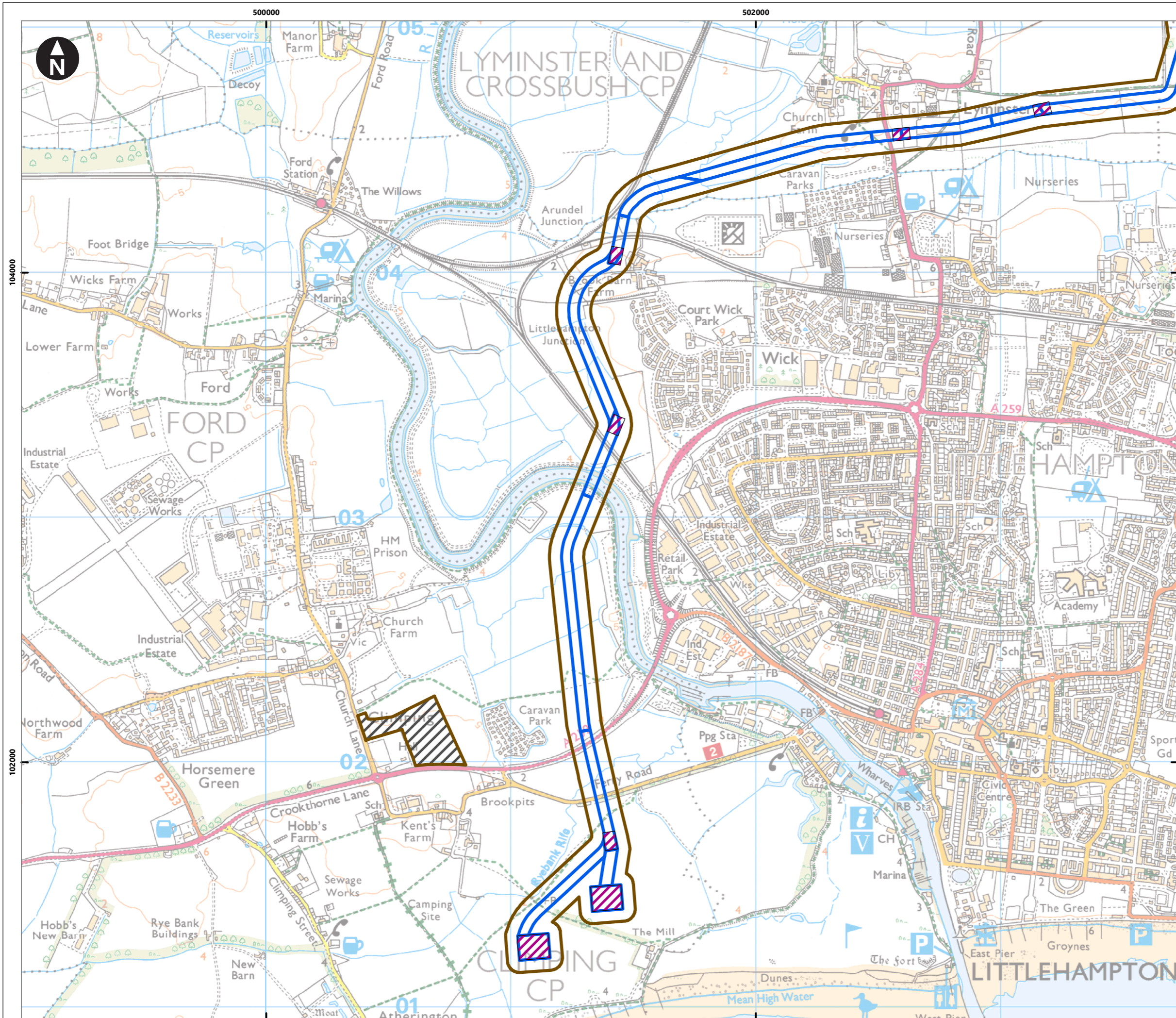
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Annex A - Figures

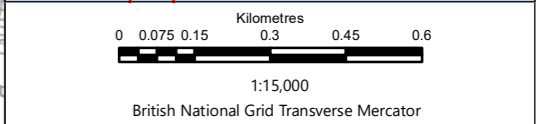
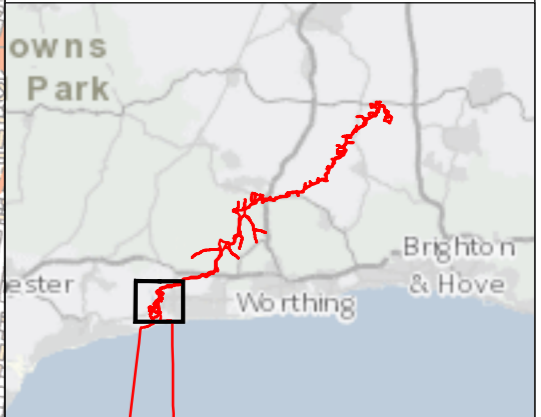
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 Ordnance Survey 0100031673

Key

-  Indicative cable corridor
-  50m buffer
-  Temporary Construction Compounds
-  Trenchless Crossing (TC) Compounds

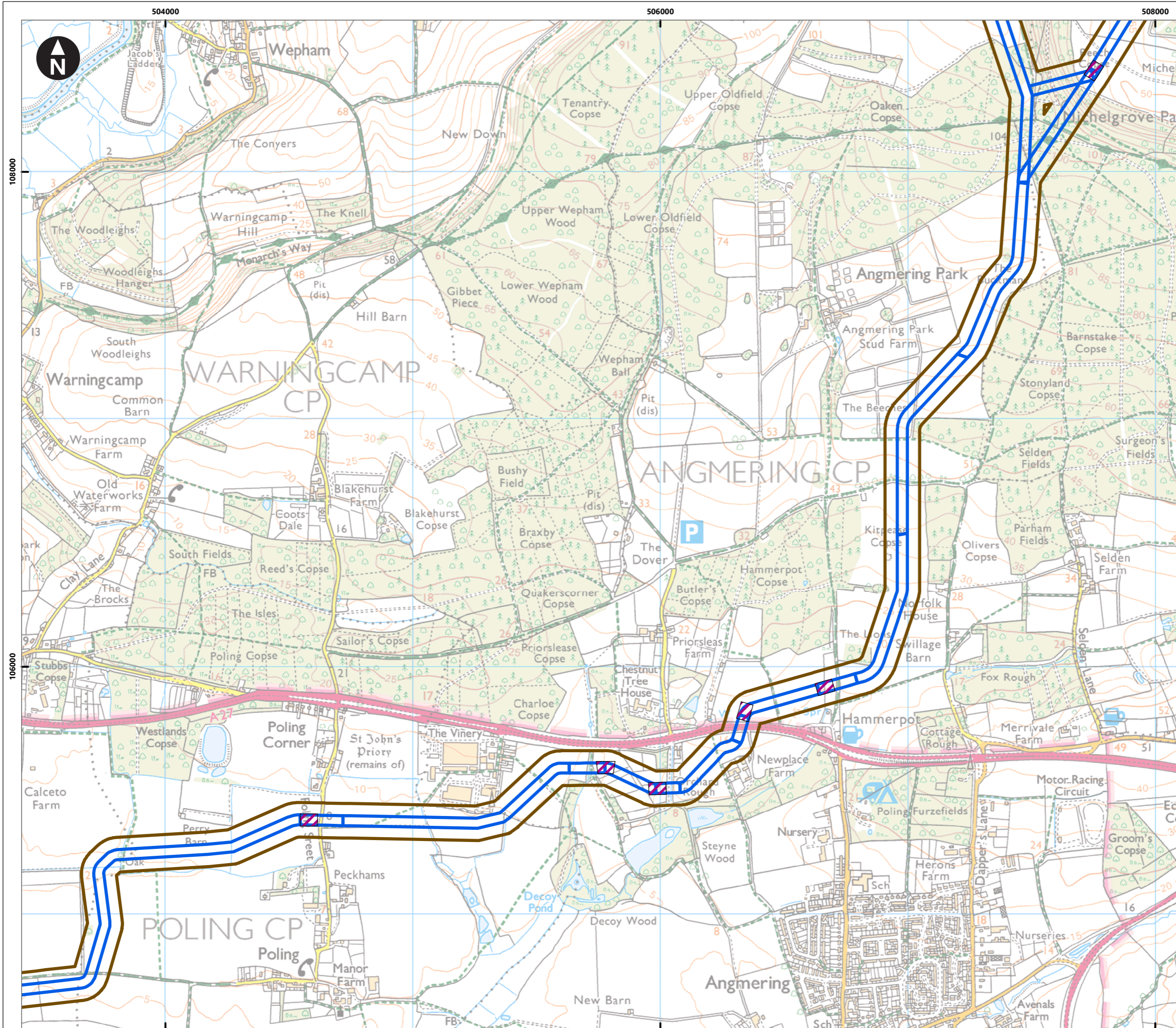


Rampion Extension Development


Rampion 2 Offshore Wind Farm
 Figure 22.13.1a Breeding bird survey area
 Breeding bird survey
 Environmental Statement




System Identifier:	Version:
42285-WSP-ES-ON-FG-OO-2371	1.0

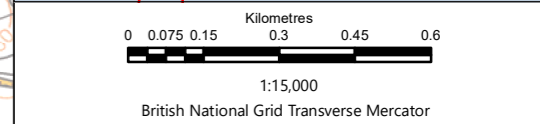
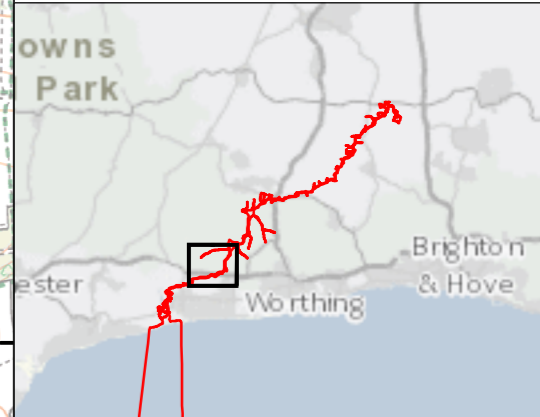
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WSP	HADJE	SUTET	02/08/2023	FINAL



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 Ordnance Survey 0100031673

Key

-  Indicative cable corridor
-  50m buffer
-  Trenchless Crossing (TC) Compounds



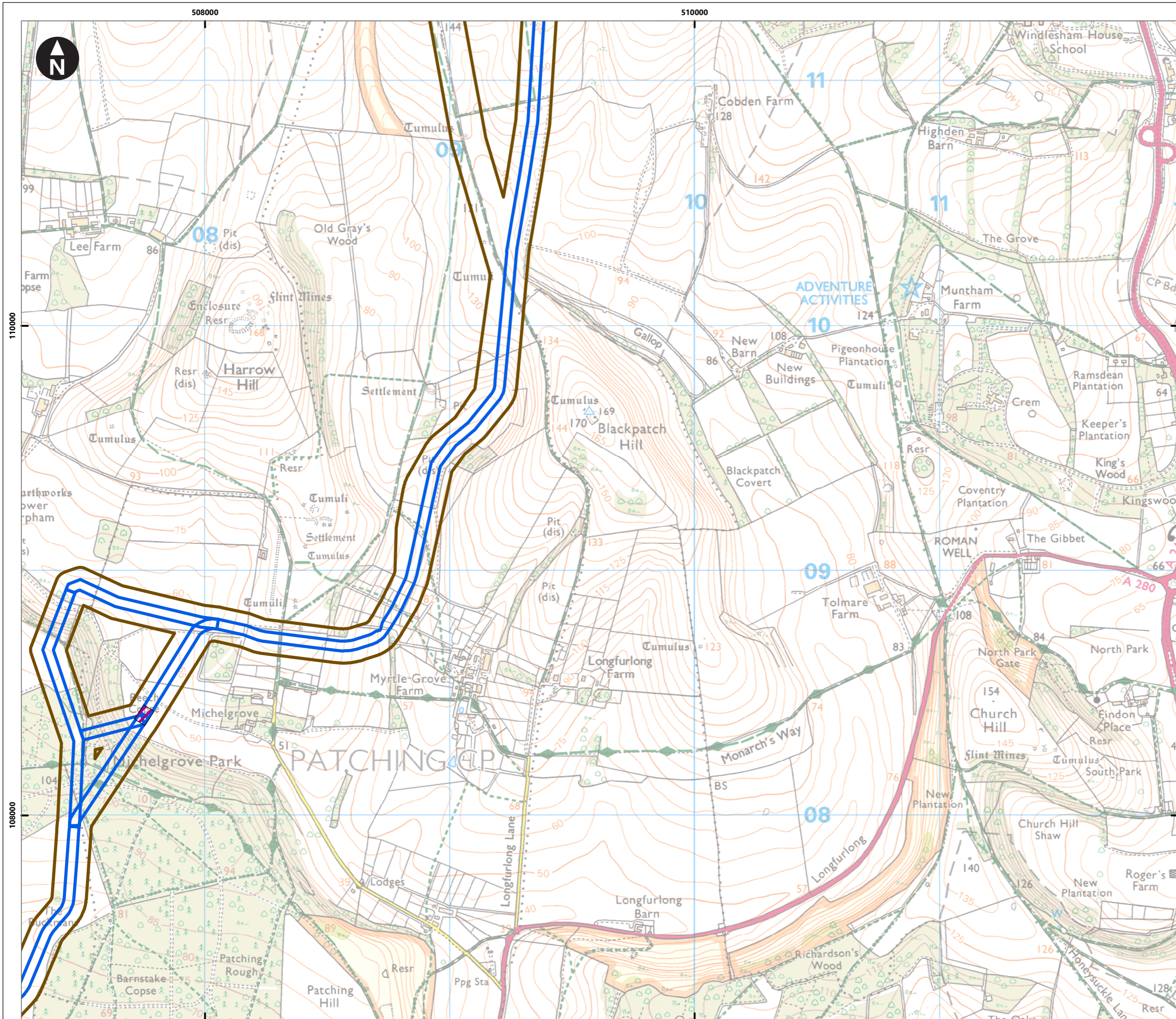
Rampion Extension Development



Rampion 2 Offshore Wind Farm
 Figure 22.13.1b Breeding bird survey area
 Breeding bird survey
 Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-2371	Version: 1.0
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Company: WSP	Drawn By: HADJE	Chk/Prvd: SUTET	Drawn Date: 02/08/2023	Status: FINAL
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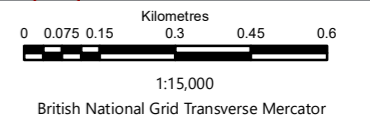
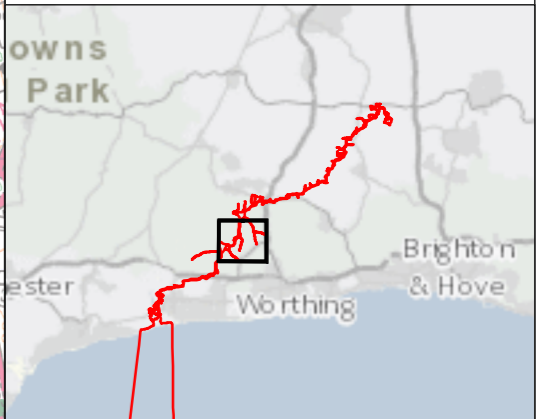


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Ordnance Survey 0100031673

Key

-  Indicative cable corridor
-  50m buffer
-  Trenchless Crossing (TC) Compounds



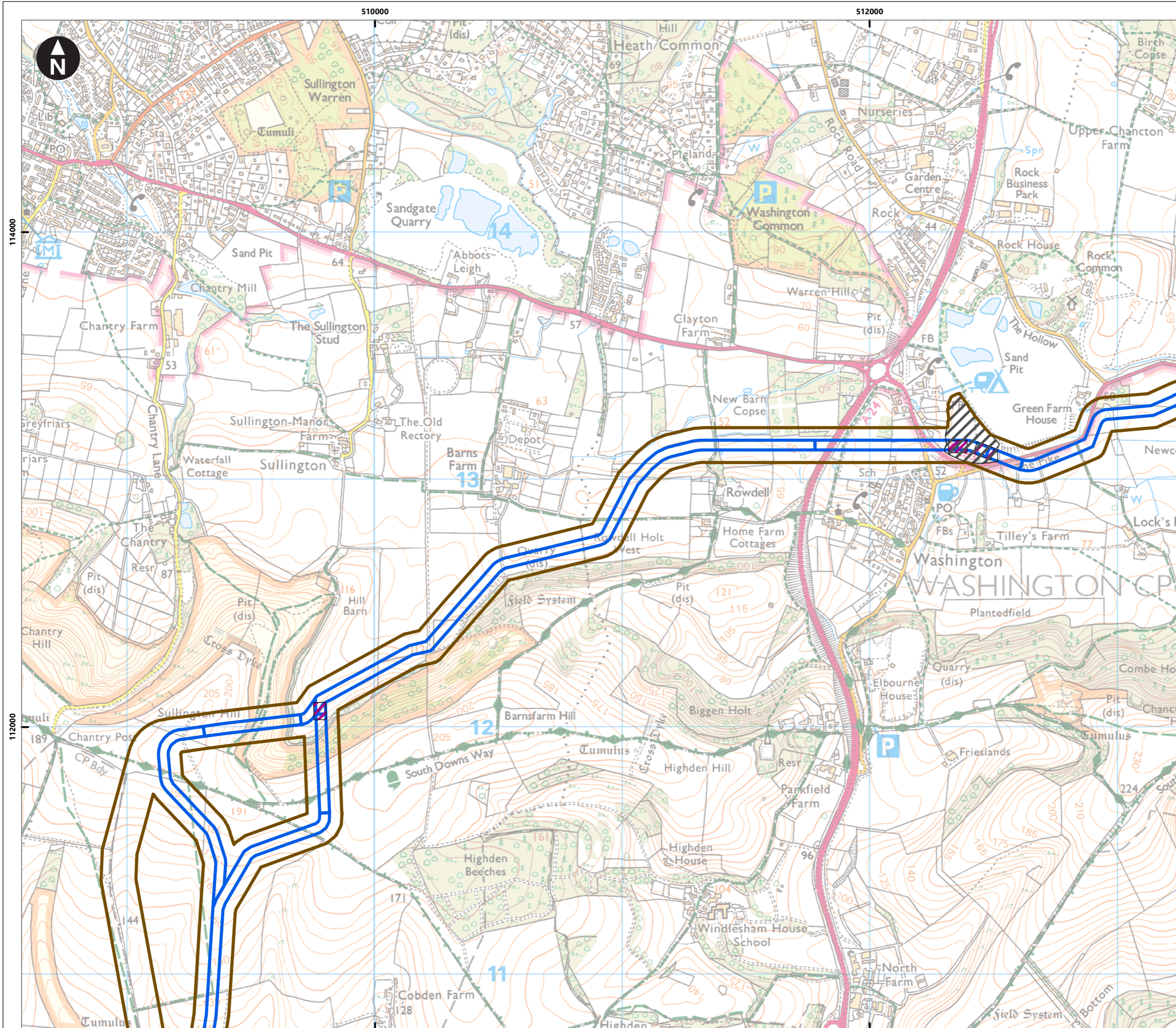
Rampion Extension Development



Rampion 2 Offshore Wind Farm
 Figure 22.13.1c Breeding bird survey area
 Breeding bird survey
 Environmental Statement





System Identifier: 42285-WSP-E-S-ON-FG-OO-2371	Version: 1.0
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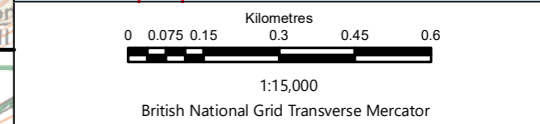
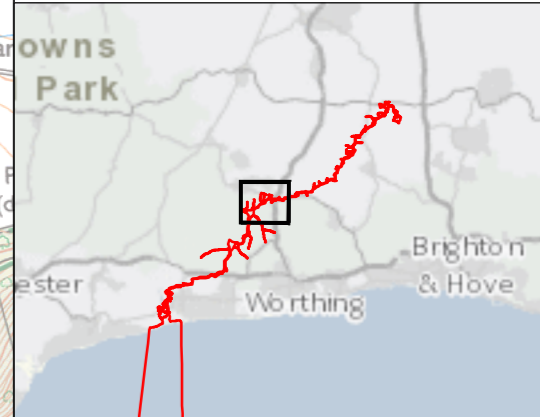
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 Ordnance Survey 0100031673

Key

-  Indicative cable corridor
-  50m buffer
-  Temporary Construction Compounds
-  Trenchless Crossing (TC) Compounds

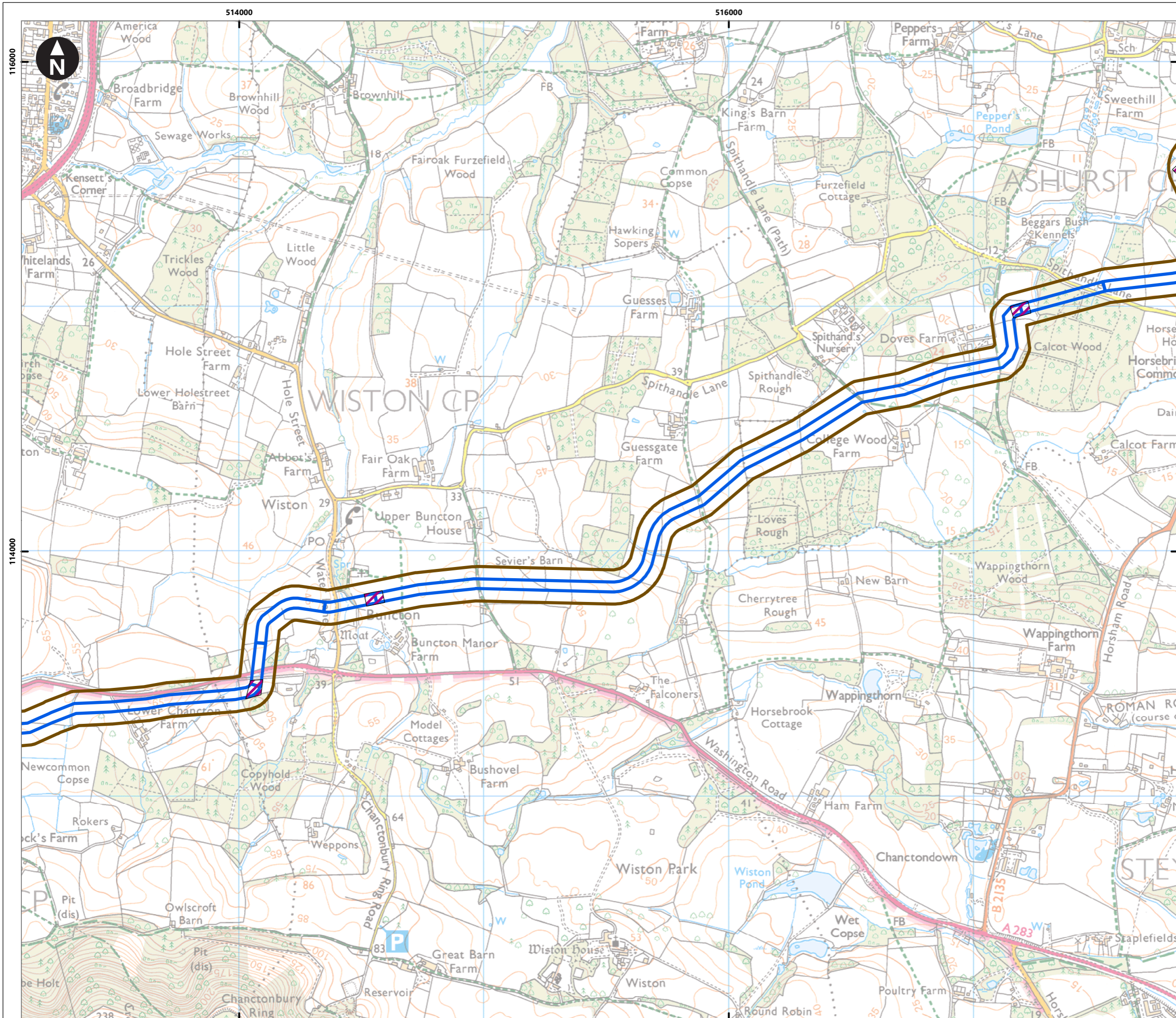


Rampion Extension Development



Rampion 2 Offshore Wind Farm
 Figure 22.13.1d Breeding bird survey area
 Breeding bird survey
 Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-2371				Version: 1.0
Company: WSP	Drawn By: HADJE	Chk/Prvrd: SUTET	Drawn Date: 02/08/2023	Status: FINAL



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 Ordnance Survey 0100031673

Key

- Indicative cable corridor
- 50m buffer
- Trenchless Crossing (TC) Compounds

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 Kilometres
 1:15,000
 British National Grid Transverse Mercator

Rampion Extension Development

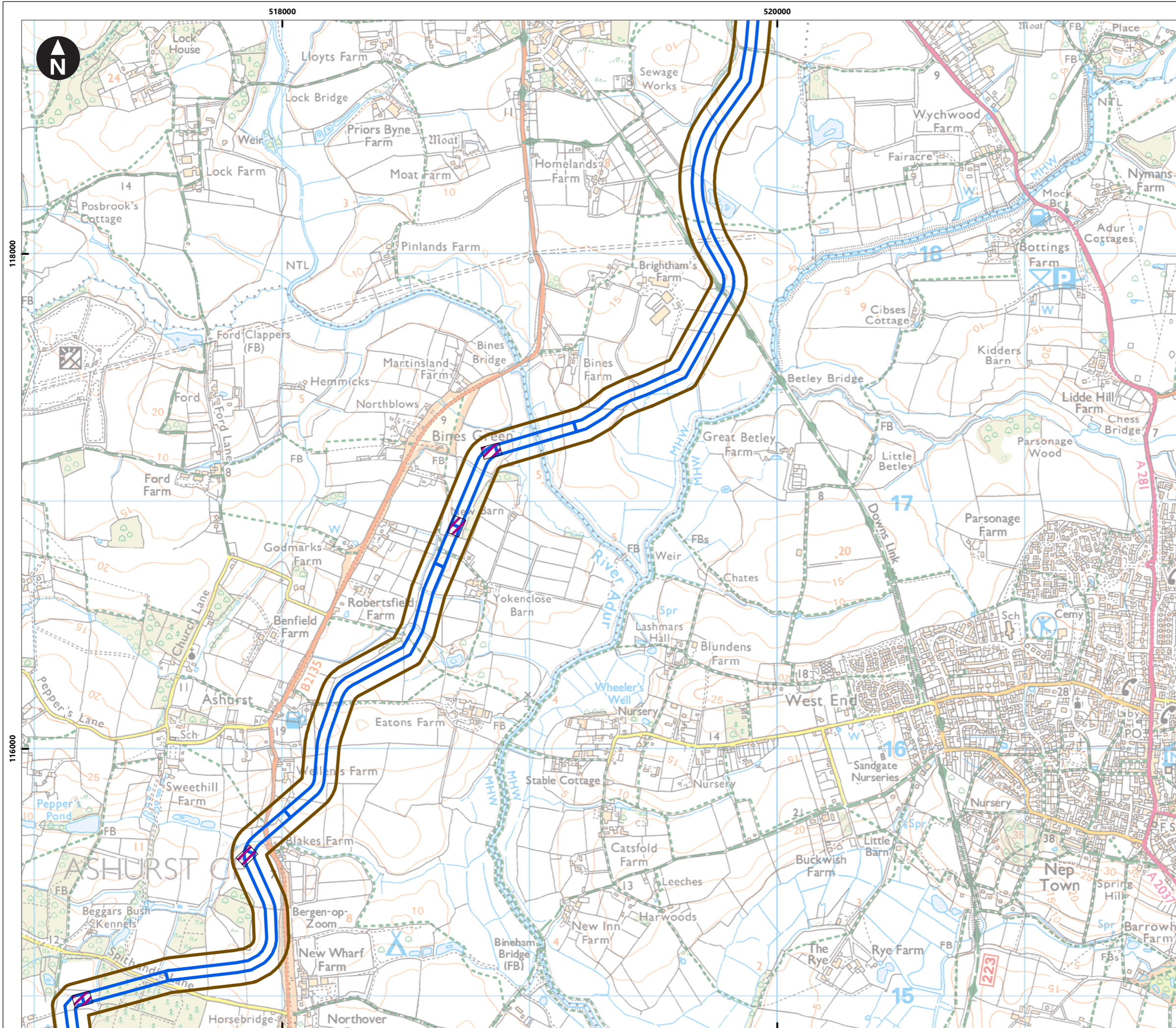
Rampion 2 Offshore Wind Farm

Figure 22.13.1e Breeding bird survey area

Breeding bird survey




Environmental Statement

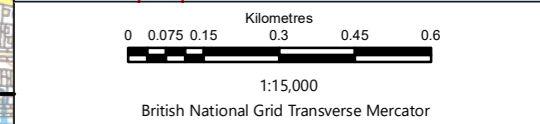
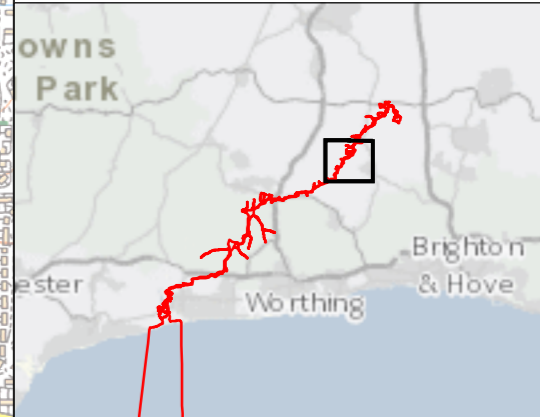
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Company: WSP	Drawn By: HADJE	Chk/Prvrd: SUTET
Drawn Date: 02/08/2023	Status: FINAL	



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 Ordnance Survey 0100031673

Key

-  Indicative cable corridor
-  50m buffer
-  Trenchless Crossing (TC) Compounds

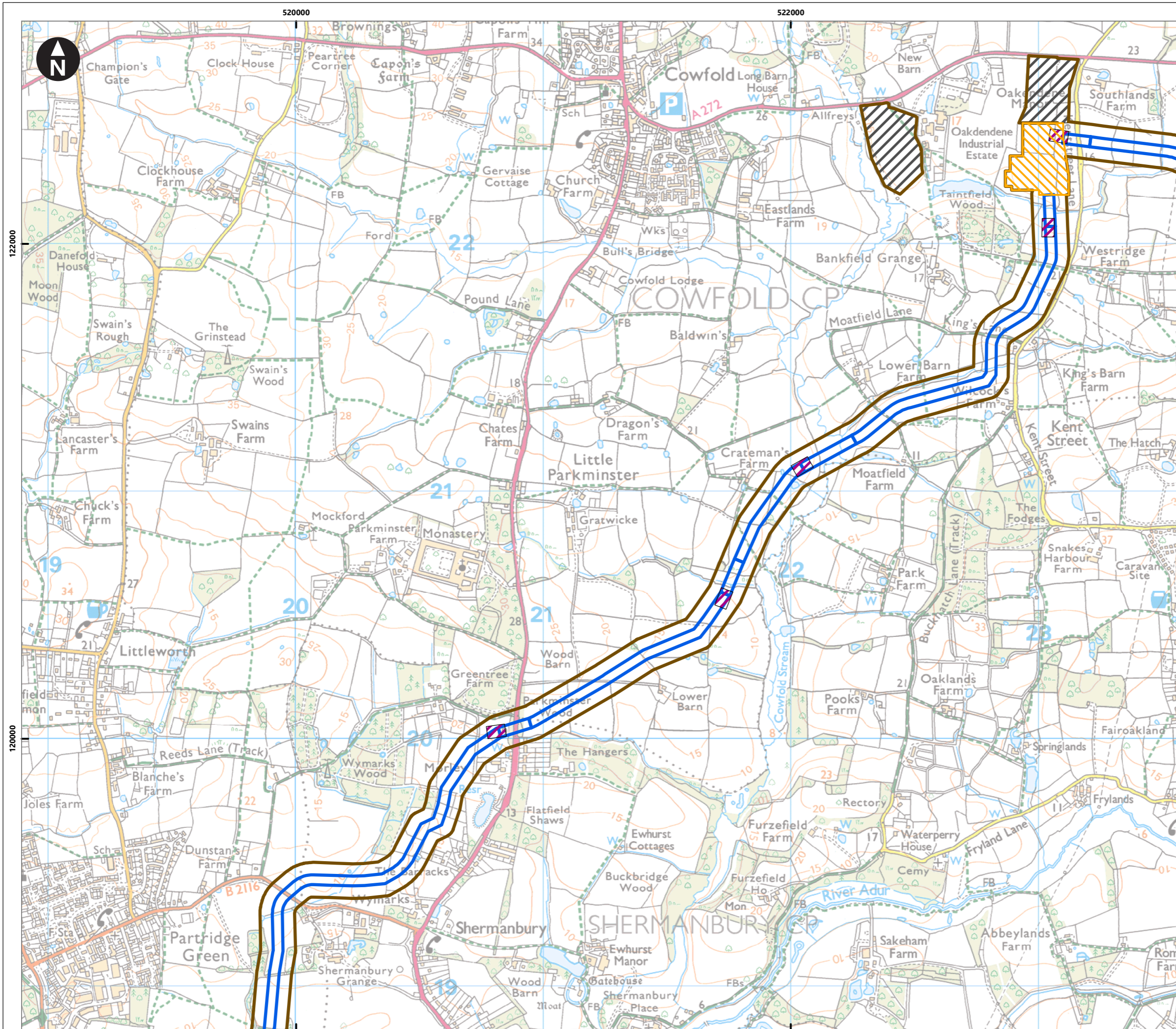


Rampion Extension Development


Rampion 2 Offshore Wind Farm
 Figure 22.13.1f Breeding bird survey area
 Breeding bird survey
 Environmental Statement






System Identifier: 42285-WSP-ES-ON-FG-OO-2371	Version: 1.0
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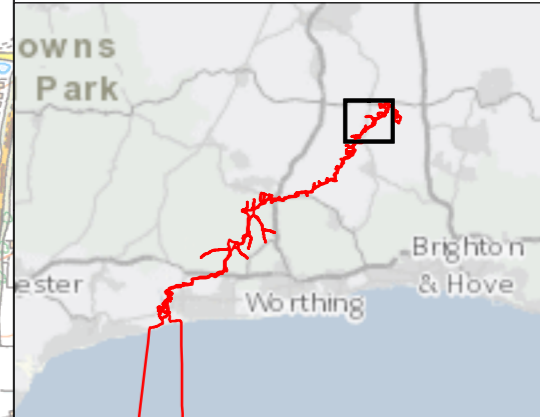
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 Ordnance Survey 0100031673


Key

-  Onshore substation
-  Indicative cable corridor
-  50m buffer
-  Temporary Construction Compounds
-  Trenchless Crossing (TC) Compounds



0 0.075 0.15 0.3 0.45 0.6
 Kilometres
 1:15,000
 British National Grid Transverse Mercator

Rampion Extension Development



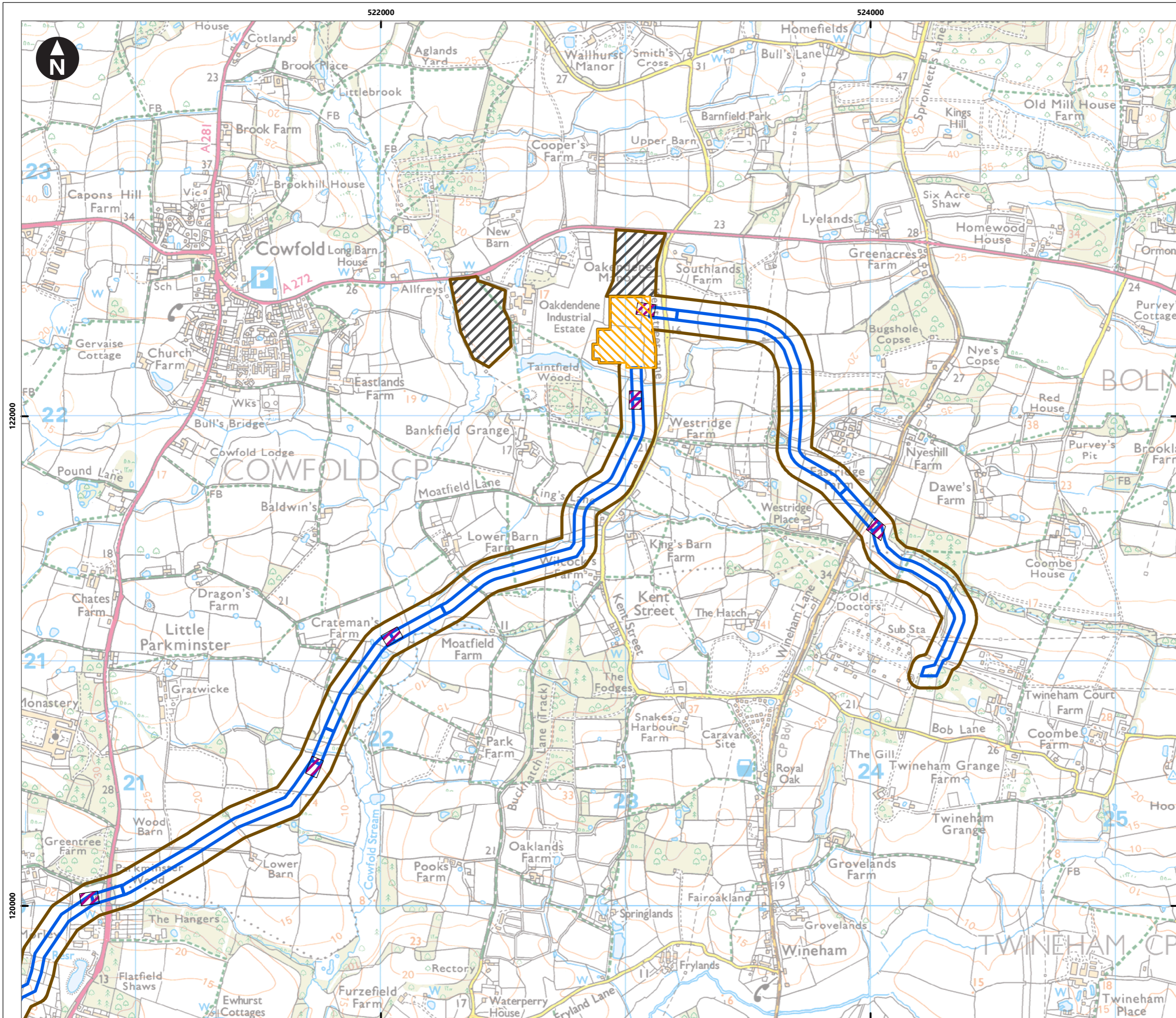
Rampion 2 Offshore Wind Farm

Figure 22.13.1g Breeding bird survey area

Breeding bird survey

Environmental Statement






System Identifier: 42285-WSPE-ES-ON-FG-OO-2371		Version: 1.0
Company: WSP	Drawn By: HADJE	Chk/Prvrd: SUTET
Drawn Date: 02/08/2023	Status: FINAL	

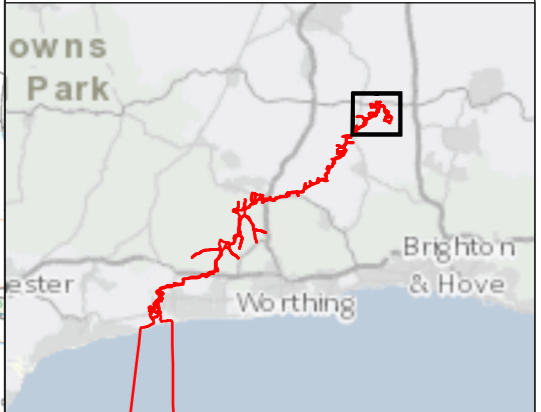


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Ordnance Survey 0100031673

Key

-  Onshore substation
-  Indicative cable corridor
-  50m buffer
-  Temporary Construction Compounds
-  Trenchless Crossing (TC) Compounds



1:15,000

British National Grid Transverse Mercator

Rampion Extension Development



Rampion 2 Offshore Wind Farm

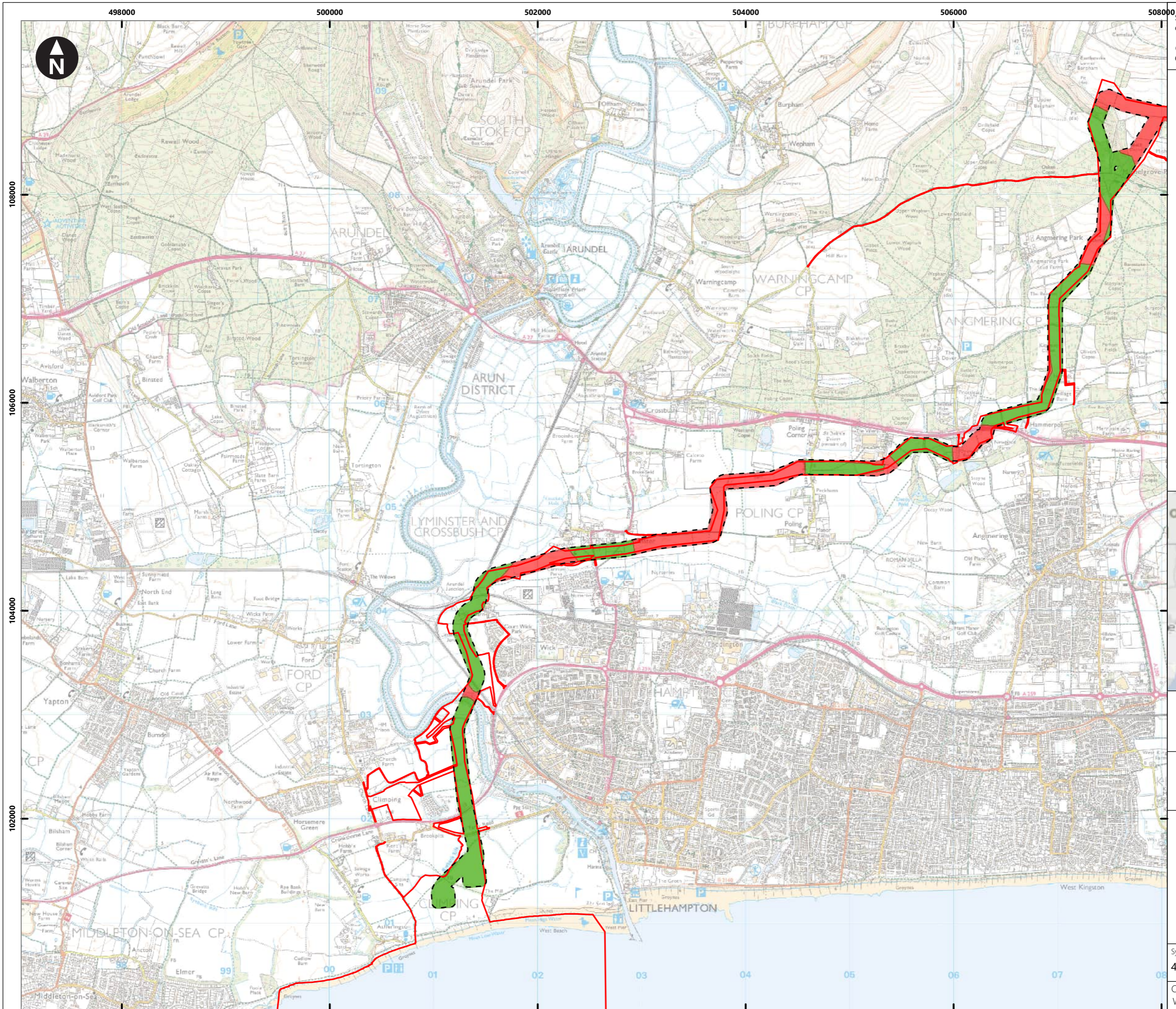
Figure 22.13.1h Breeding bird survey area

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSP-ES-ON-FG-OO-2371	1.0

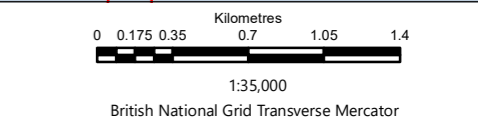
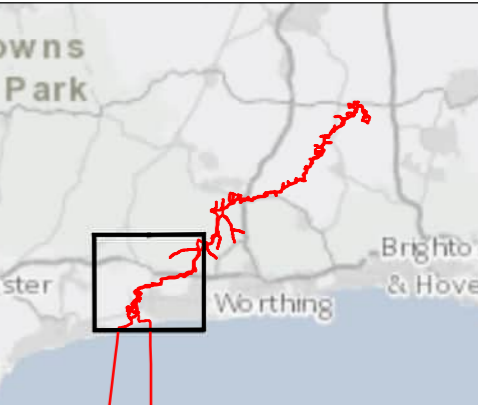
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WSP	HADJE	SUTET	02/08/2023	FINAL



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 Ordnance Survey 0100031673

Key

- Proposed DCO Order Limits
- Indicative onshore cable corridor
- 50m buffer
- Breeding bird survey adequate coverage
- Breeding bird survey inadequate coverage



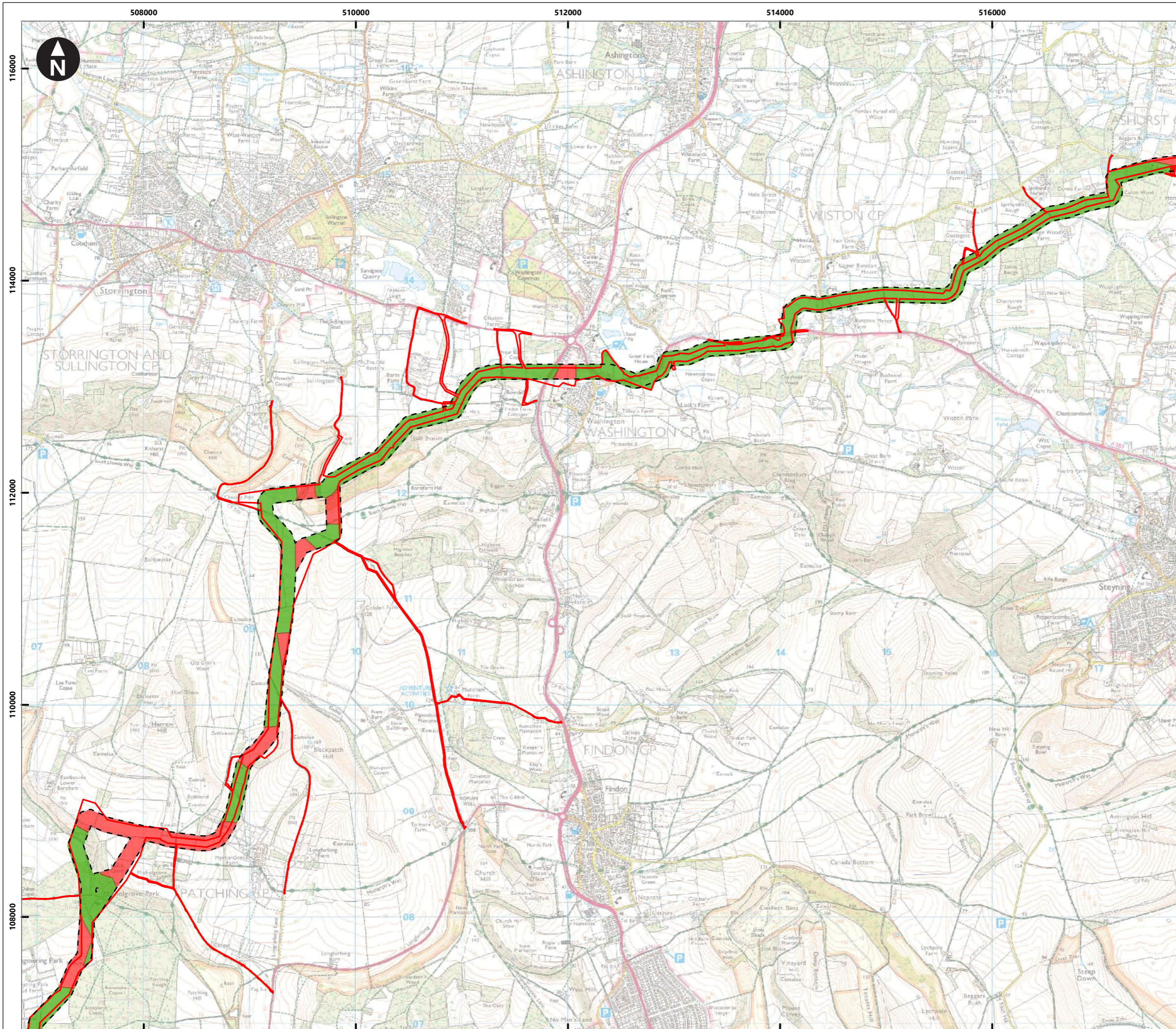
Rampion Extension Development



Rampion 2 Offshore Wind Farm
 Figure 22.13.2a Breeding bird survey coverage
 Breeding bird survey
 Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-9670	Version: 1.0
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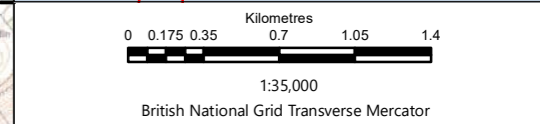
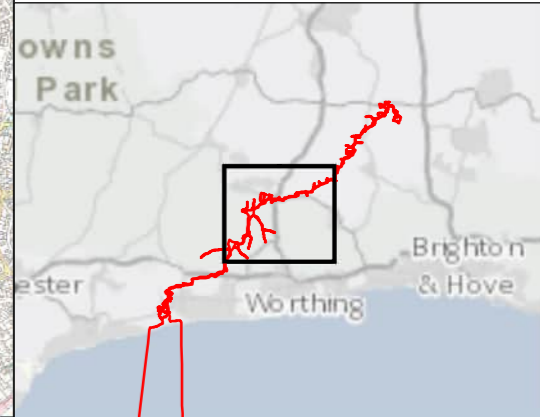
Company: WSP	Drawn By: HADJE	Chk/Prvd: SUTET	Drawn Date: 27/07/2023	Status: FINAL
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 Ordnance Survey 0100031673

Key

- Proposed DCO Order Limits
- Indicative onshore cable corridor
- 50m buffer
- Breeding bird survey adequate coverage
- Breeding bird survey inadequate coverage

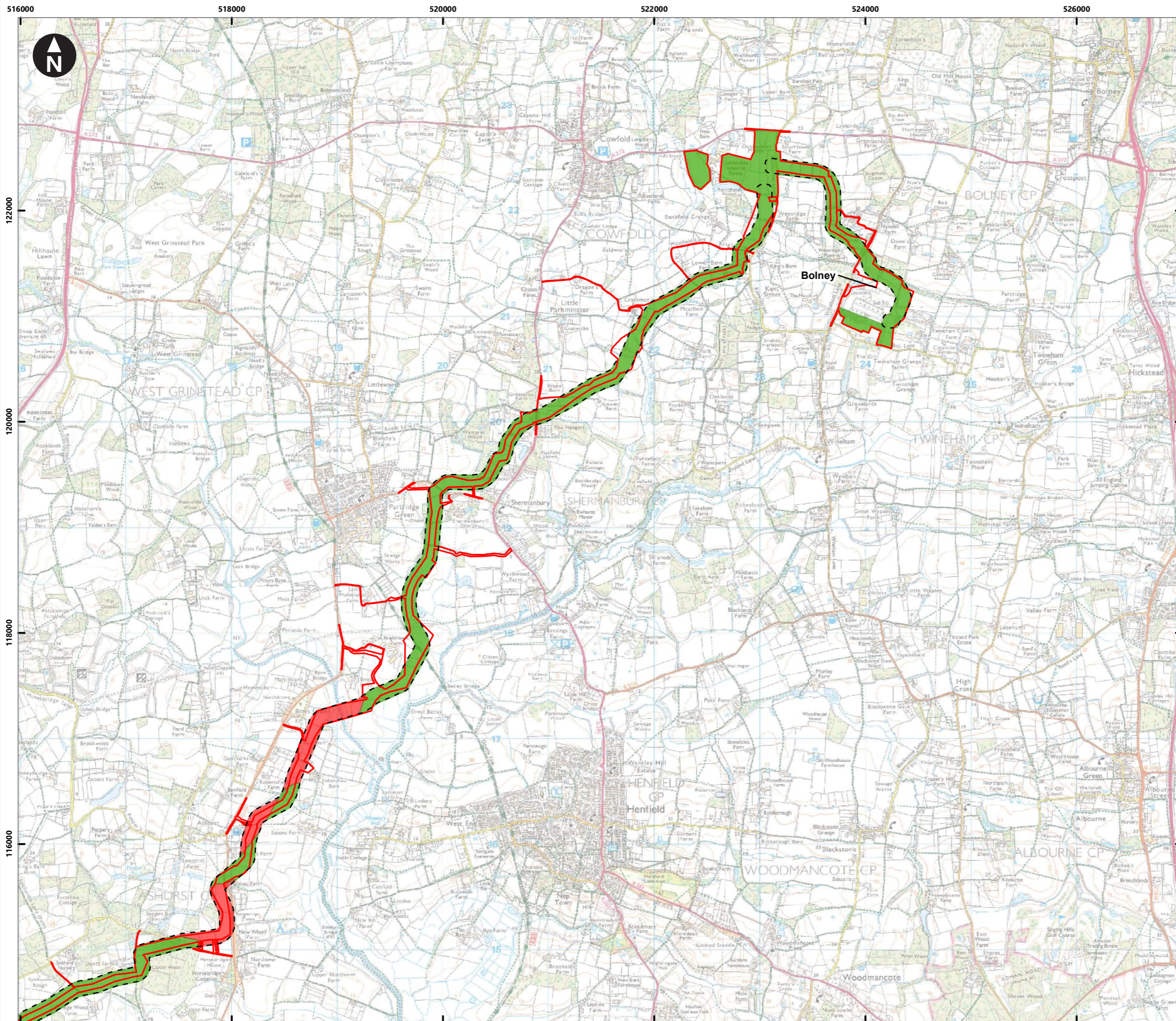


Rampion Extension Development


Rampion 2 Offshore Wind Farm
 Figure 22.13.2b Breeding bird survey coverage
 Breeding bird survey
 Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-9670	Version: 1.0
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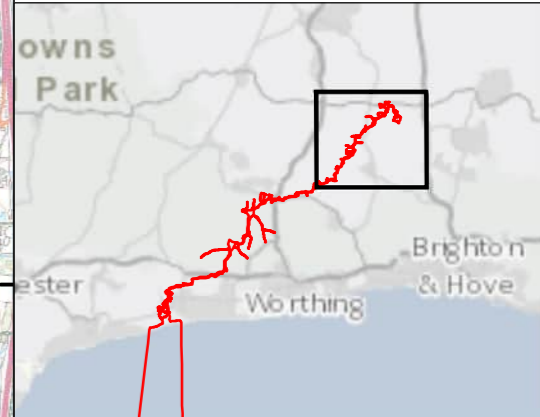
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 Ordnance Survey 0100031673

Key

- Proposed DCO Order Limits
- Indicative onshore cable corridor
- 50m buffer
- Breeding bird survey adequate coverage
- Breeding bird survey inadequate coverage



0 0.175 0.35 0.7 1.05 1.4
 Kilometres
 1:35,000
 British National Grid Transverse Mercator

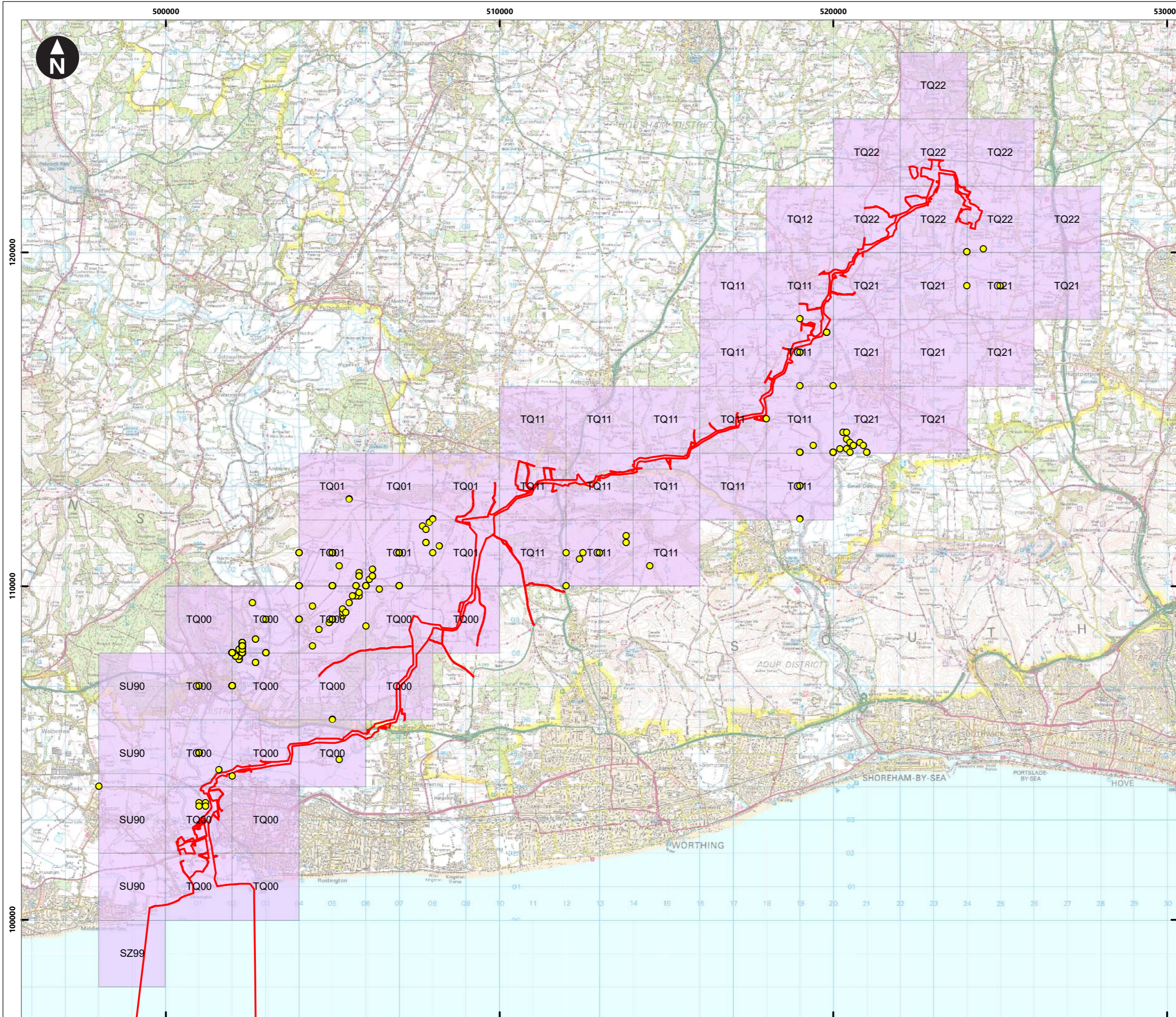
Rampion Extension Development



Rampion 2 Offshore Wind Farm
 Figure 22.13.2c Breeding bird survey coverage
 Breeding bird survey
 Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-9670
 Version: 1.0

Company: WSP	Drawn By: HADJE	Chk/Prvd: SUTET	Drawn Date: 27/07/2023	Status: FINAL
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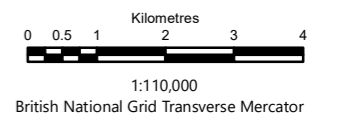
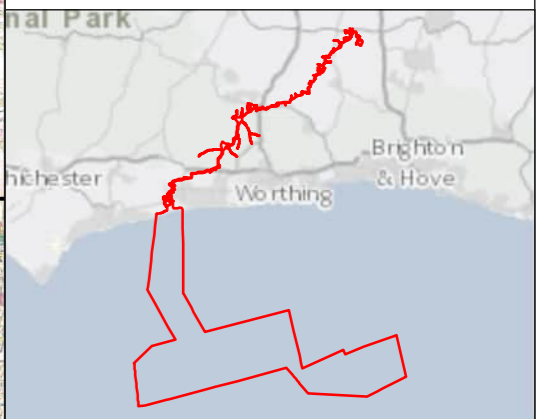


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Key

- Proposed DCO Order Limits
- Tetra grid
- Lapwing location



Rampion Extension Development



Rampion 2 Offshore Wind Farm

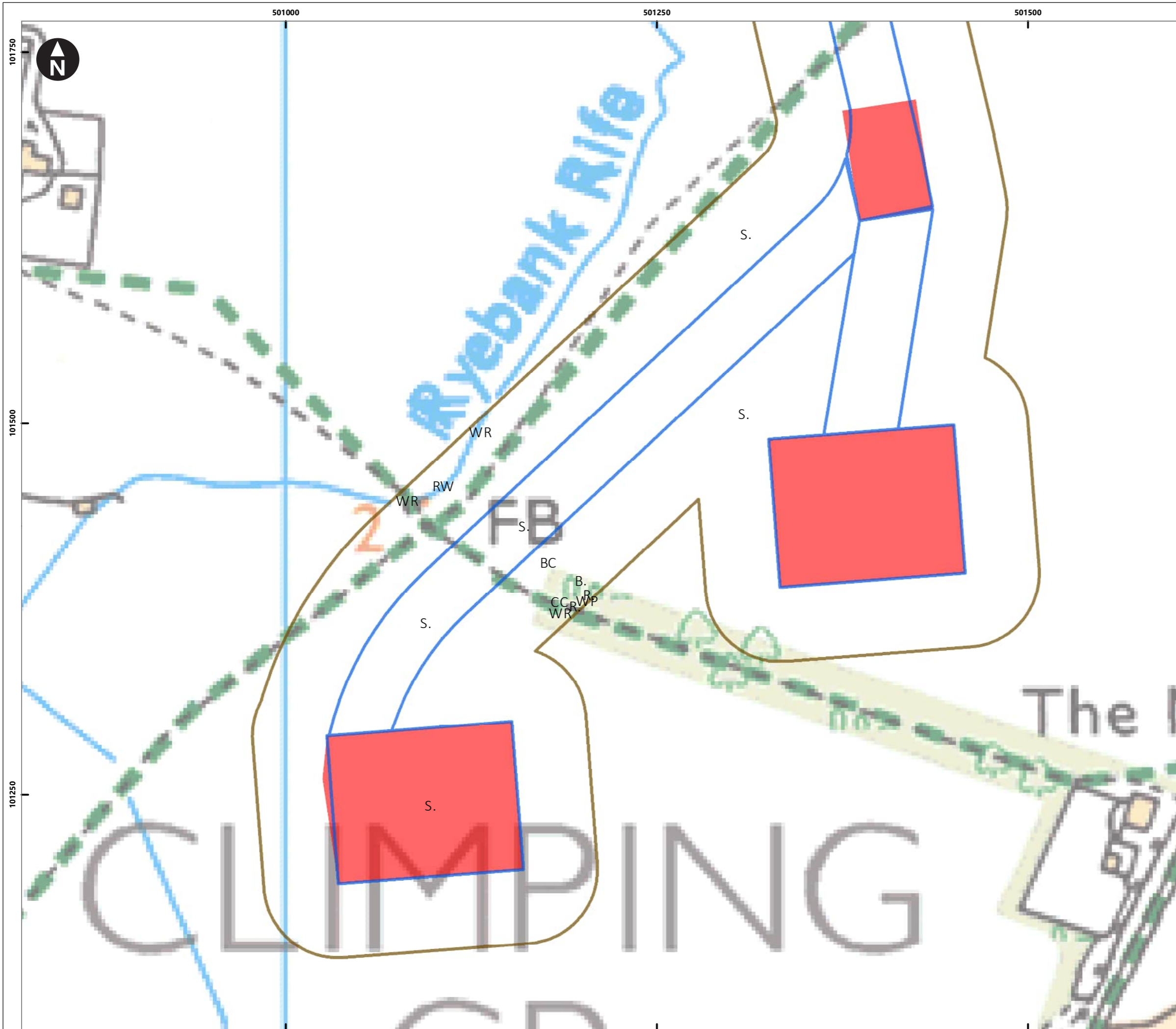
Figure 22.13.3 Lapwing Breeding Locations 2013-2023

Breeding bird survey

Environmental Statement

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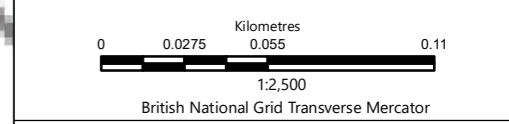
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WSP	HADJE	SUTET	28/07/2023	FINAL



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

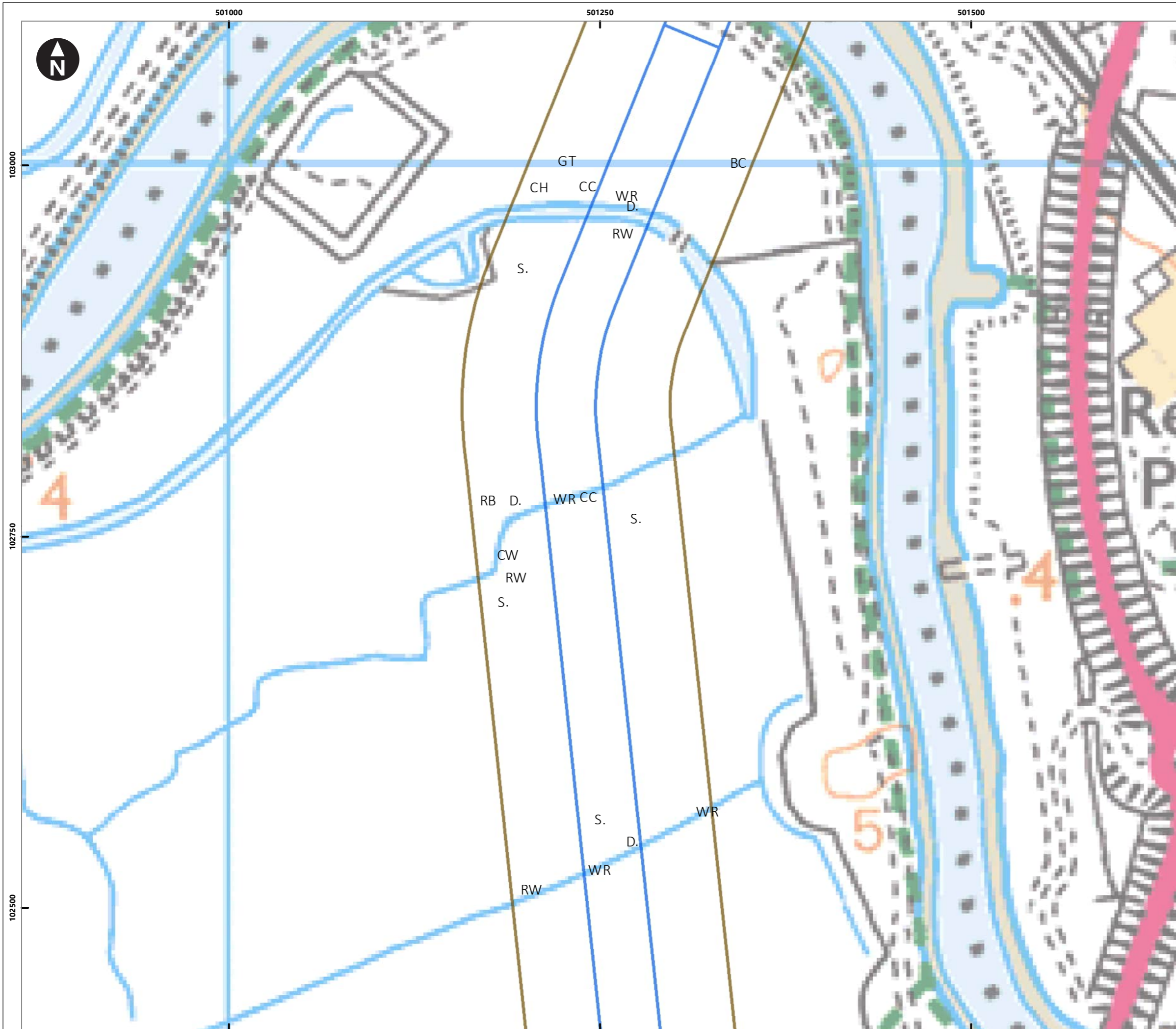
Figure 22.13.4a Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSP-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL

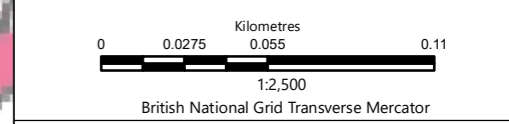
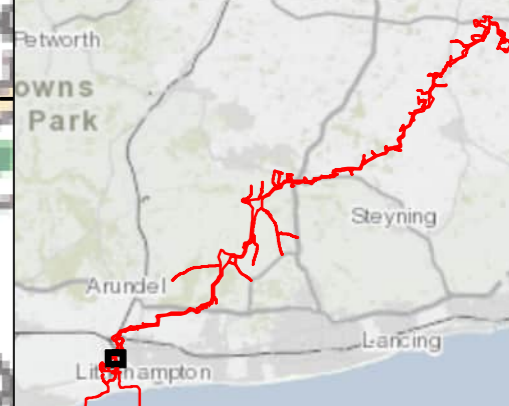


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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds

Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 22.13.4c Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B. Blackbird	GJ Greylag goose
BC Blackcap	GO Goldfinch
BT Blue Tit	GR Greenfinch
C. Carrion Crow	GT Great tit
CB Corn bunting	GS Great spotted woodpecker
CC Chiffchaff	K. Kestrel
CH Chaffinch	L. Lapwing
CT Coal Tit	LI Linnet
CW Cetti's Warbler	LT Long-tailed tit
D. Dunnock	LW Lesser whitethroat
FC Firecrest	MG Magpie
G. Green woodpecker	MP Meadow pipit
GC Goldcrest	N. Nightingale
	R. Robin
	RB Reed bunting
	RW Reed warbler
	S. Skylark
	SD Stock dove
	SG Starling
	ST Song Thrush
	WH Whitethroat
	WP Woodpigeon
	WR Wren
	Y. Yellowhammer

Inset Map: Shows the location of the study area near Littlehampton, with labels for Petworth, Arundel, Littlehampton, Steyning, and Lancing.

Scale: 0 to 0.11 Kilometres. Scale 1:2,500. British National Grid Transverse Mercator.

Rampion Extension Development

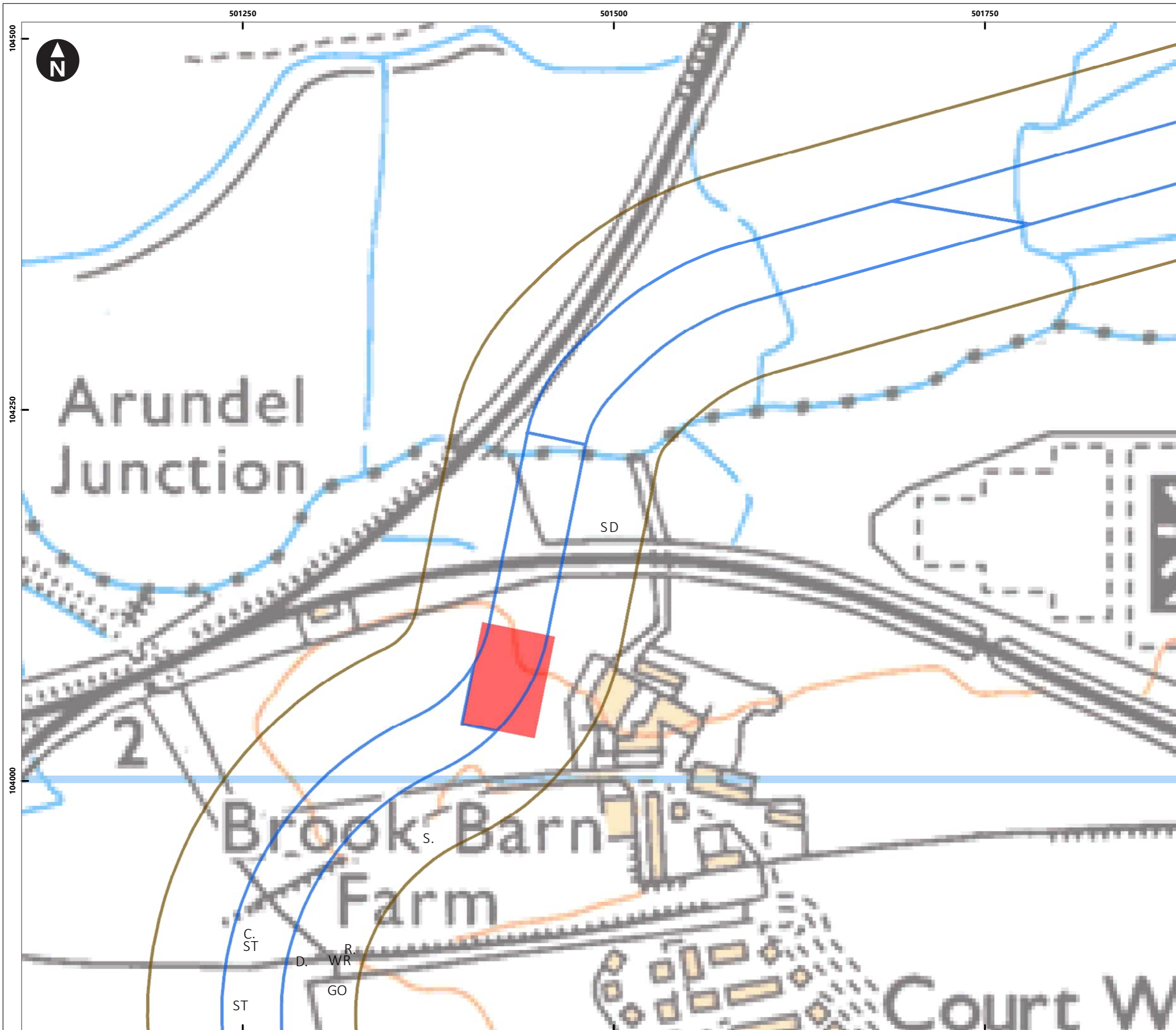
Rampion 2 Offshore Wind Farm

Figure 22.13.4d Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OO-6615		Version: 1.0
Company: WSP	Drawn By: HADJE	Chk/Prvd: SUTET
Drawn Date: 31/07/2023	Status: FINAL	



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B.	Blackbird	GJ	Greylag goose
BC	Blackcap	GO	Goldfinch
BT	Blue Tit	GR	Greenfinch
C.	Carrion Crow	GT	Great tit
CB	Corn bunting	GS	Great spotted woodpecker
CC	Chiffchaff	K.	Kestrel
CH	Chaffinch	L.	Lapwing
CT	Coal Tit	LI	Linnet
CW	Cetti's Warbler	LT	Long-tailed tit
D.	Dunnock	LW	Lesser whitethroat
FC	Firecrest	MG	Magpie
G.	Green woodpecker	MP	Meadow pipit
GC	Goldcrest	N.	Nightingale
		R.	Robin
		RB	Reed bunting
		RW	Reed warbler
		S.	Skylark
		SD	Stock dove
		SG	Starling
		ST	Song Thrush
		WH	Whitethroat
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer

0 0.0275 0.055 0.11
 1:2,500
 British National Grid Transverse Mercator

Rampion Extension Development

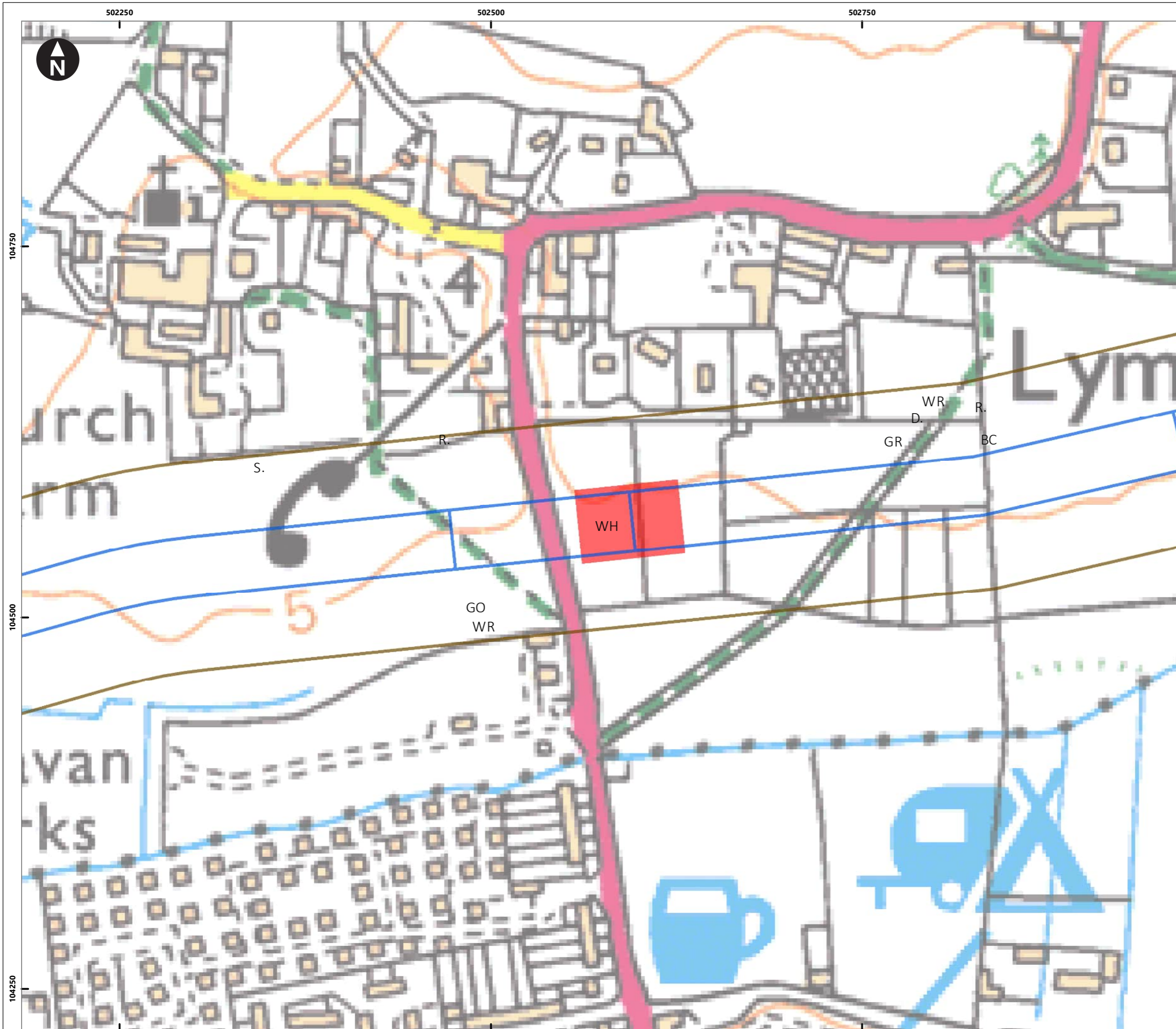
Rampion 2 Offshore Wind Farm

Figure 22.13.4e Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

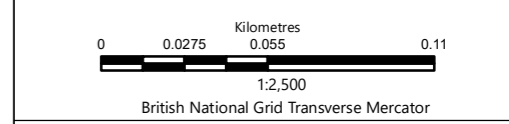
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Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET
Drawn Date: 31/07/2023	Status: FINAL	



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Dunnock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development



Rampion 2 Offshore Wind Farm

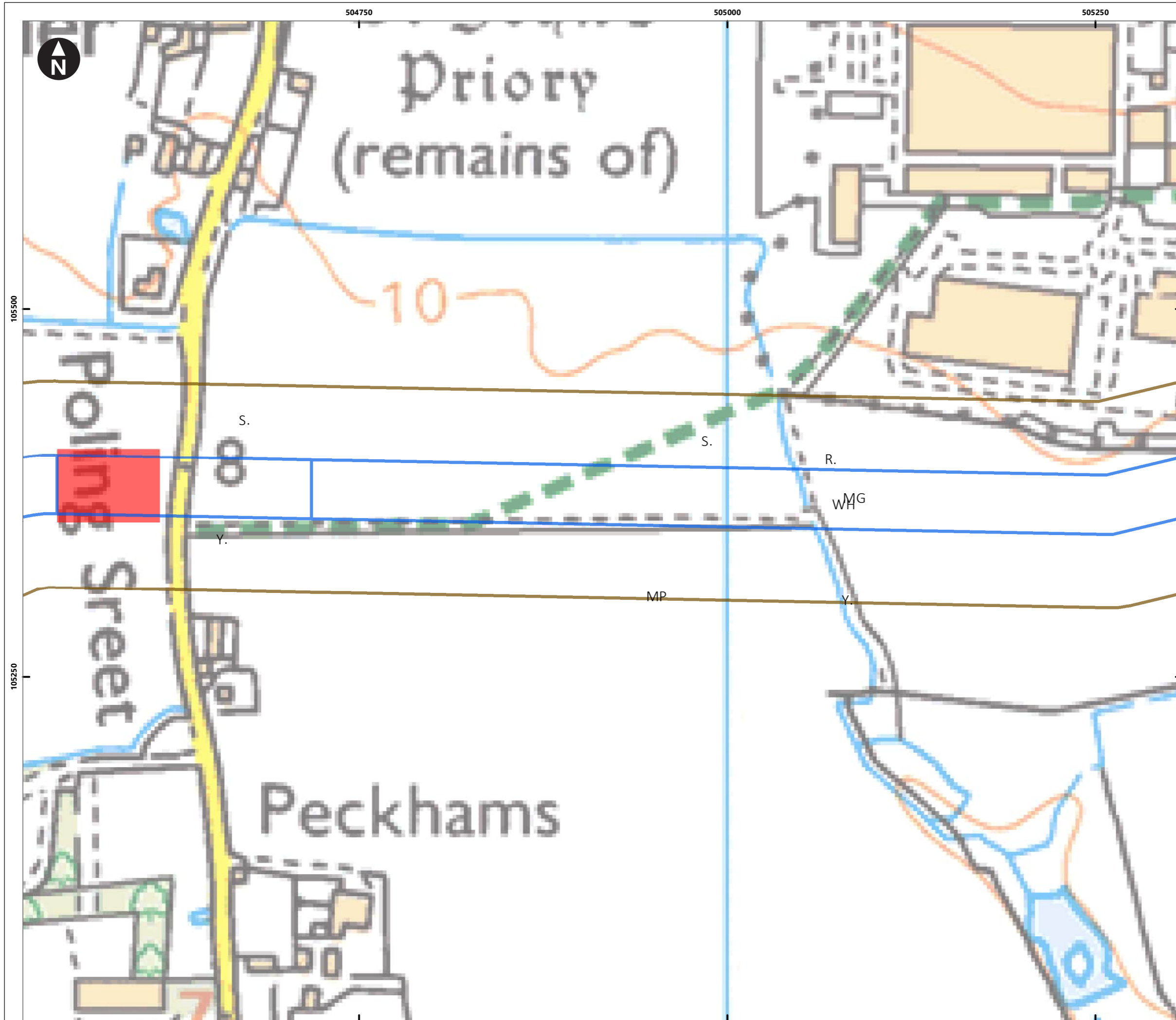
Figure 22.13.4f Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSP-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B. Blackbird	GJ Greylag goose
BC Blackcap	GO Goldfinch
BT Blue Tit	GR Greenfinch
C. Carrion Crow	GT Great tit
CB Corn bunting	GS Great spotted woodpecker
CC Chiffchaff	K. Kestrel
CH Chaffinch	L. Lapwing
CT Coal Tit	LI Linnet
CW Cetti's Warbler	LT Long-tailed tit
D. Dunnock	LW Lesser whitethroat
FC Firecrest	MG Magpie
G. Green woodpecker	MP Meadow pipit
GC Goldcrest	N. Nightingale
	R. Robin
	RB Reed bunting
	RW Reed warbler
	S. Skylark
	SD Stock dove
	SG Starling
	ST Song Thrush
	WH Whitethroat
	WP Woodpigeon
	WR Wren
	Y. Yellowhammer

Inset Map: Shows the location of the site near Peckhams and Priors, with a red line indicating the project route. Labels include Petworth, Downs Park, Arundel, Litchampton, Steyning, and Lancing.

Scale: 0 to 0.11 Kilometres. Scale: 1:2,500. British National Grid Transverse Mercator.

Rampion Extension Development

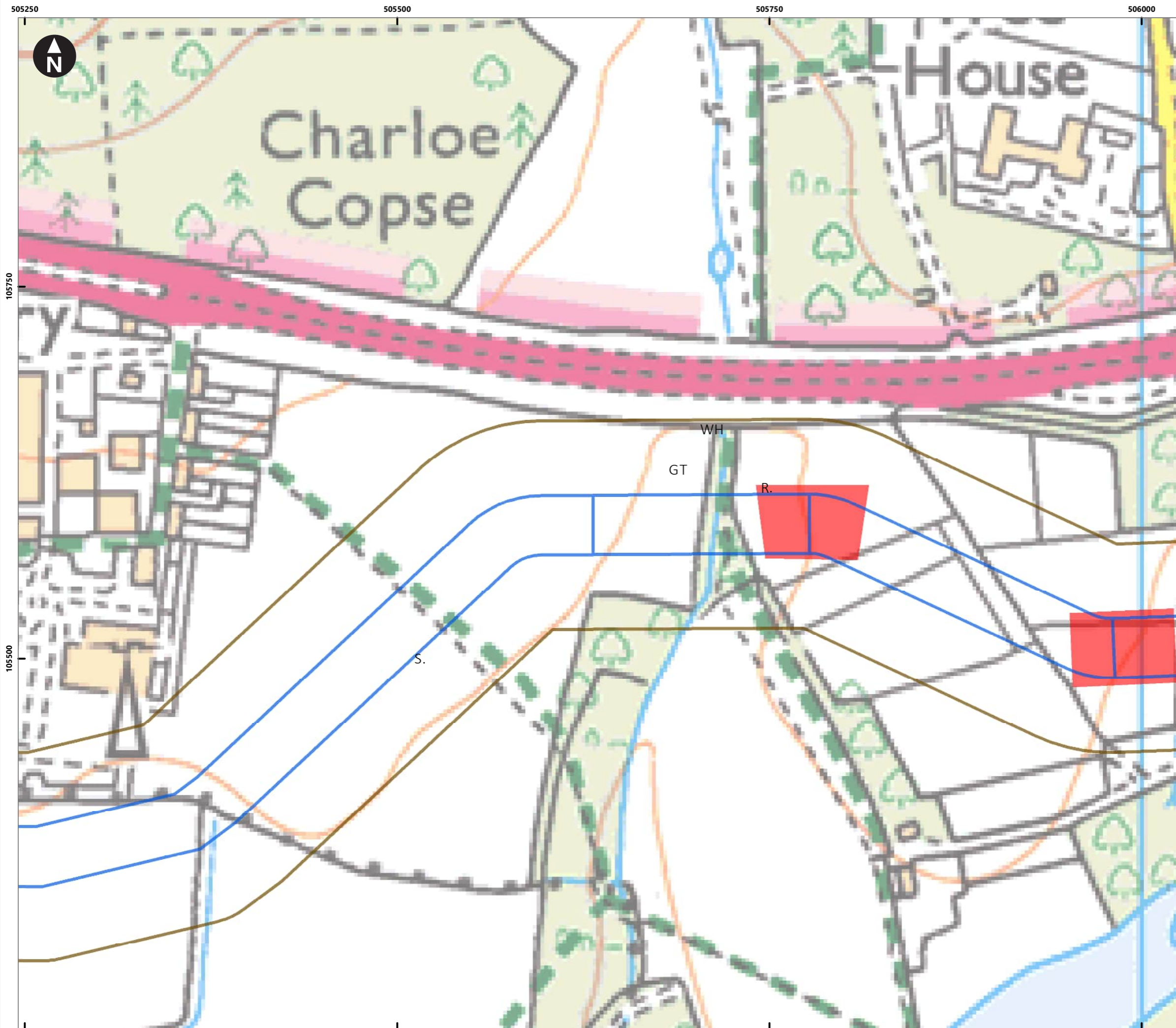
Rampion 2 Offshore Wind Farm

Figure 22.13.4g Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

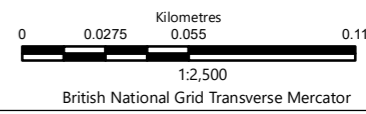
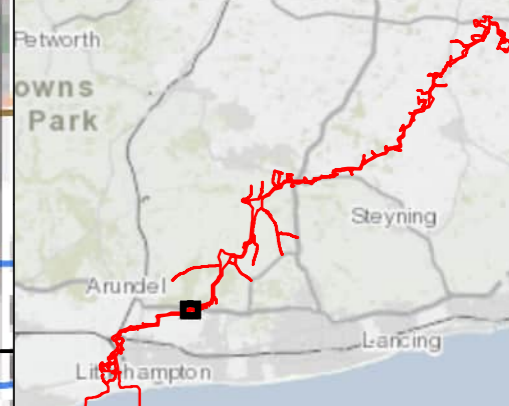
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Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET
Drawn Date: 31/07/2023	Status: FINAL	



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Dunnock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion 2 Offshore Wind Farm

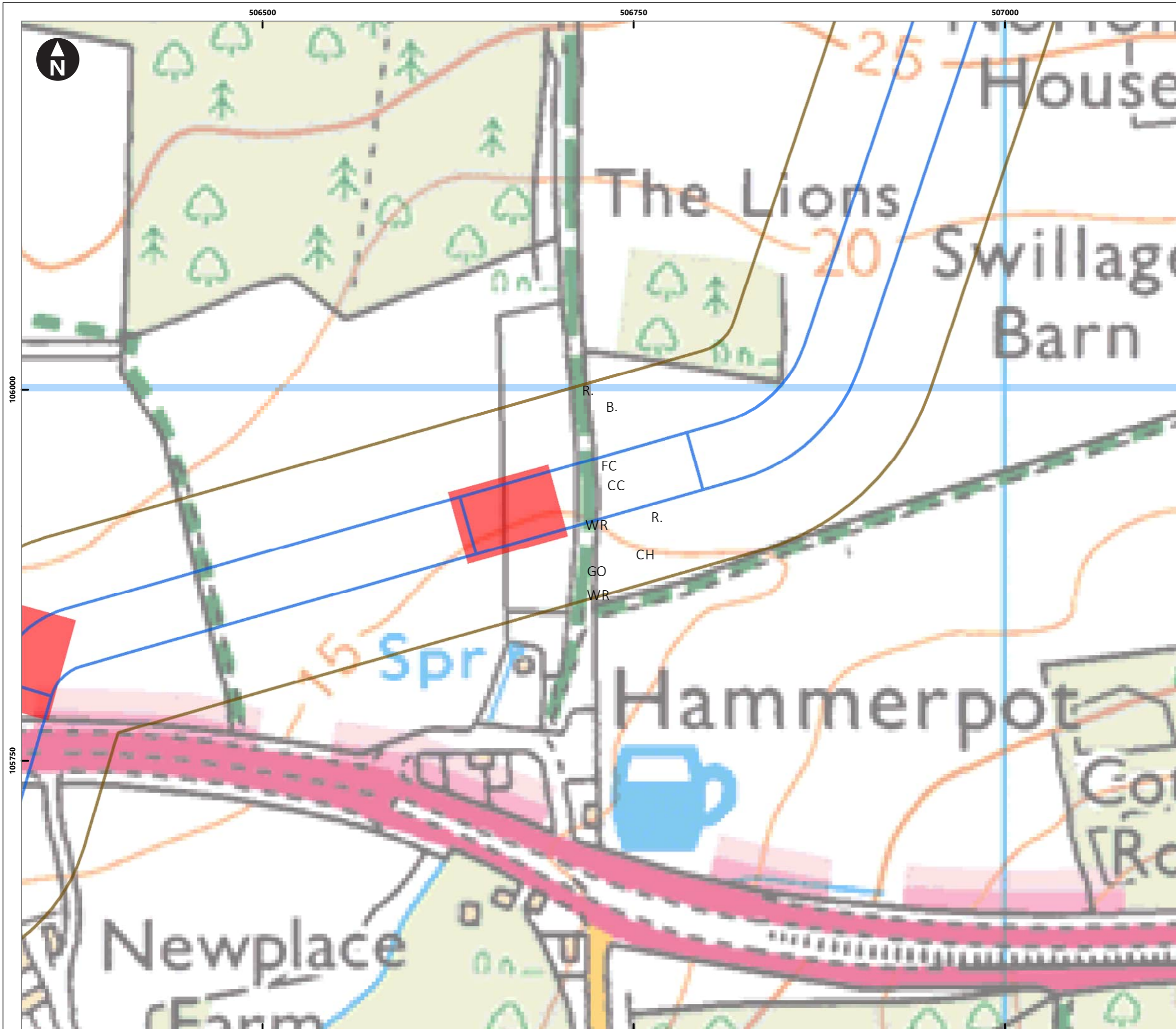
Figure 22.13.4h Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSP-ES-ON-FG-OO-6615	1.0

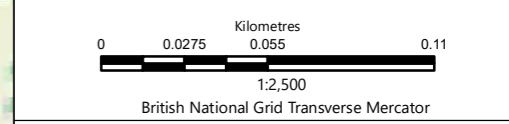
Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion 2 Offshore Wind Farm

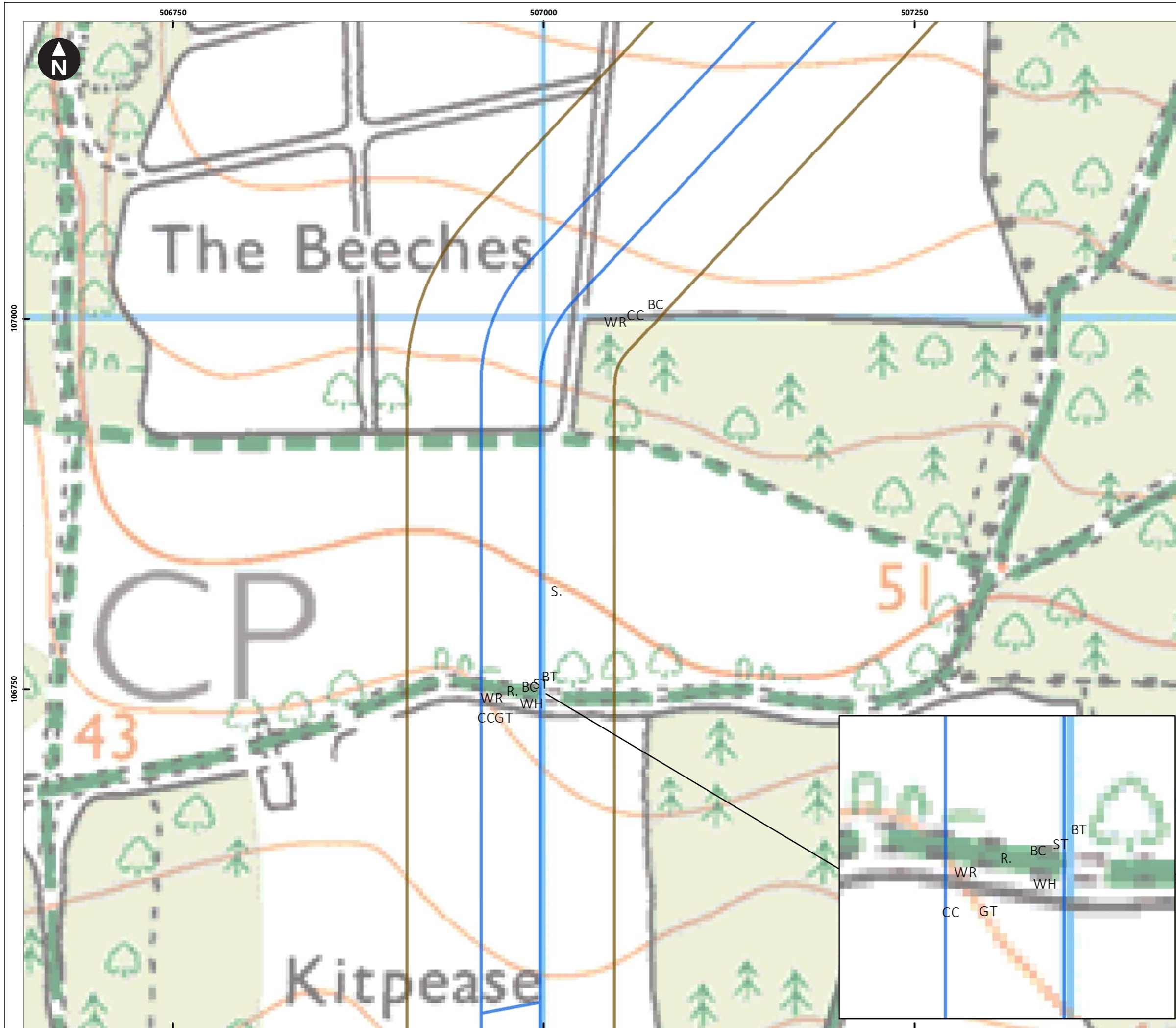
Figure 22.13.4i Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL

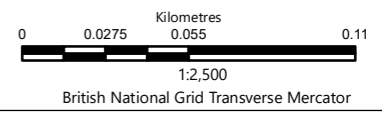
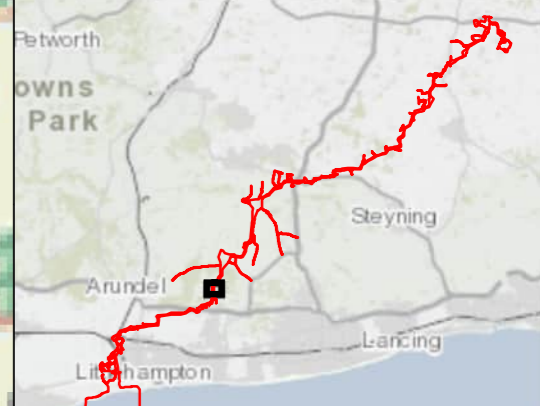


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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds

Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Maggpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

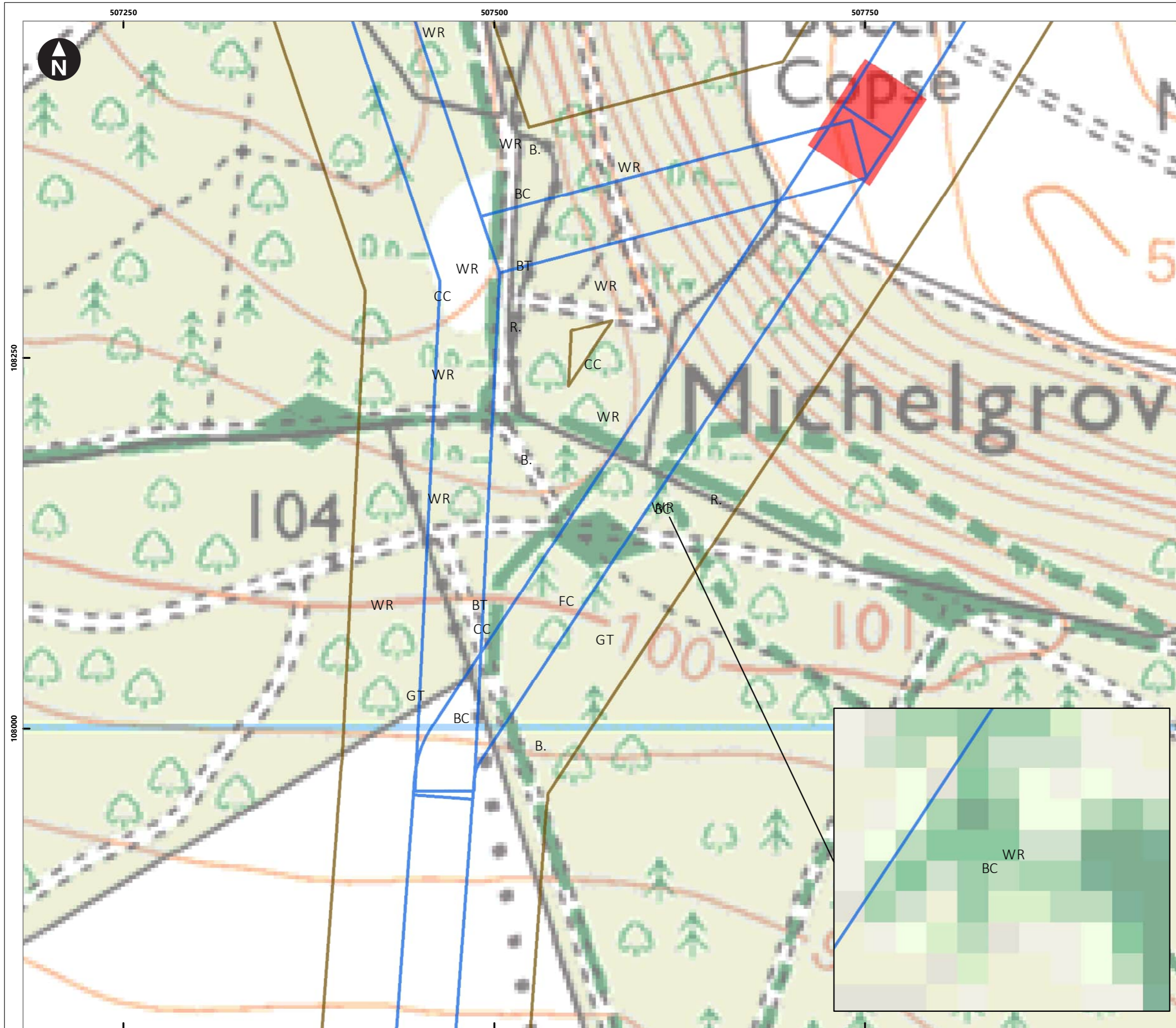
Figure 22.13.4j Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-6615	Version: 1.0
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Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET	Drawn Date: 31/07/2023	Status: FINAL
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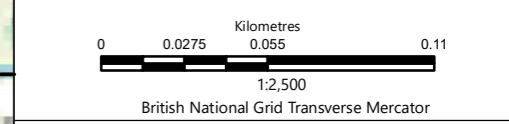


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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds

Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	S Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

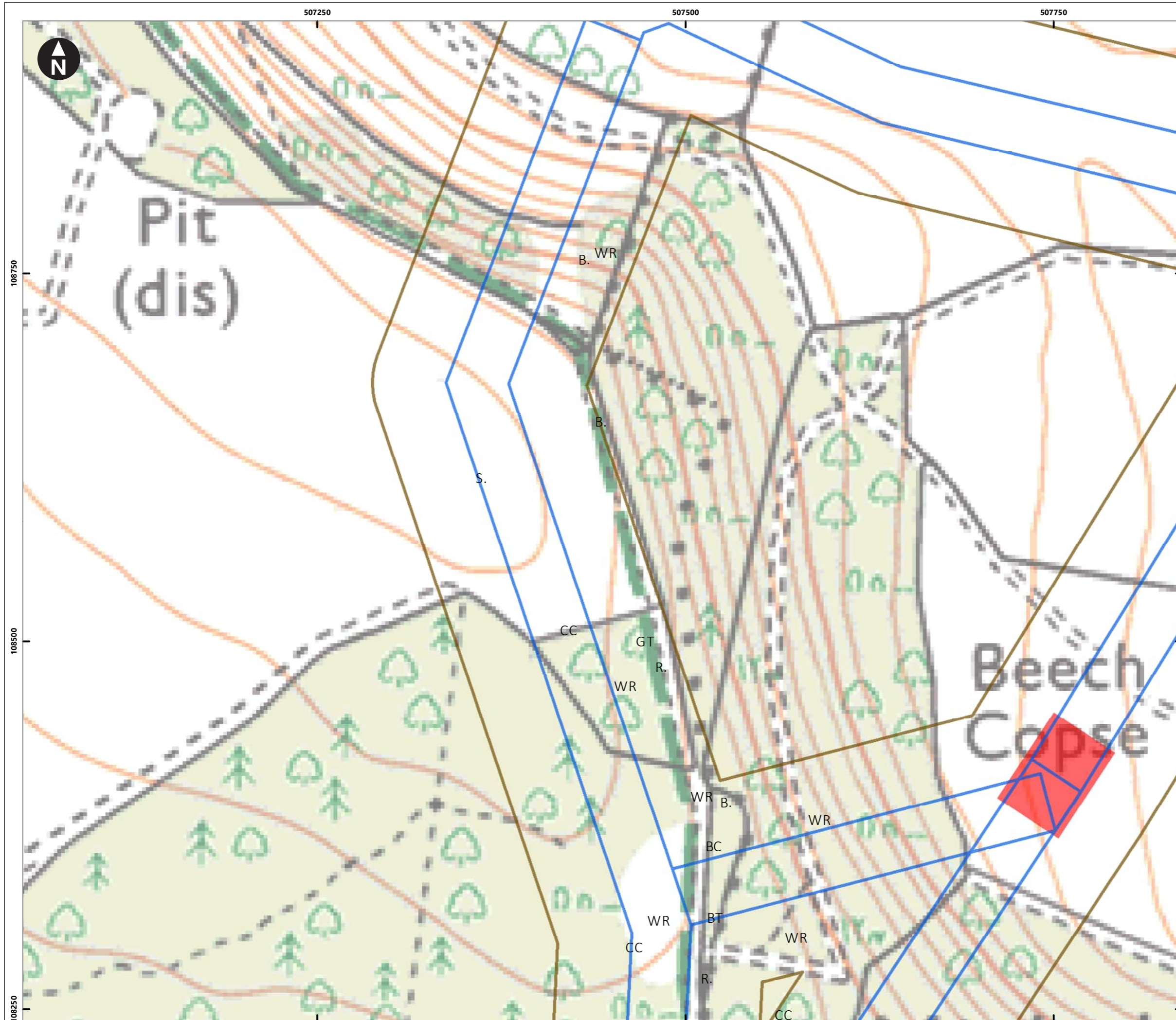
Figure 22.13.4k Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B.	Blackbird	GJ	Greylag goose
BC	Blackcap	GO	Goldfinch
BT	Blue Tit	GR	Greenfinch
C.	Carrion Crow	GT	Great tit
CB	Corn bunting	GS	Great spotted woodpecker
CC	Chiffchaff	K.	Kestrel
CH	Chaffinch	L.	Lapwing
CT	Coal Tit	LI	Linnet
CW	Cetti's Warbler	LT	Long-tailed tit
D.	Dunnock	LW	Lesser whitethroat
FC	Firecrest	MG	Magpie
G.	Green woodpecker	MP	Meadow pipit
GC	Goldcrest	N.	Nightingale
		R.	Robin
		RB	Reed bunting
		RW	Reed warbler
		S.	Skylark
		SD	Stock dove
		SG	Starling
		ST	Song Thrush
		WH	Whitethroat
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer

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 1:2,500
 British National Grid Transverse Mercator

Rampion Extension Development

Rampion 2 Offshore Wind Farm

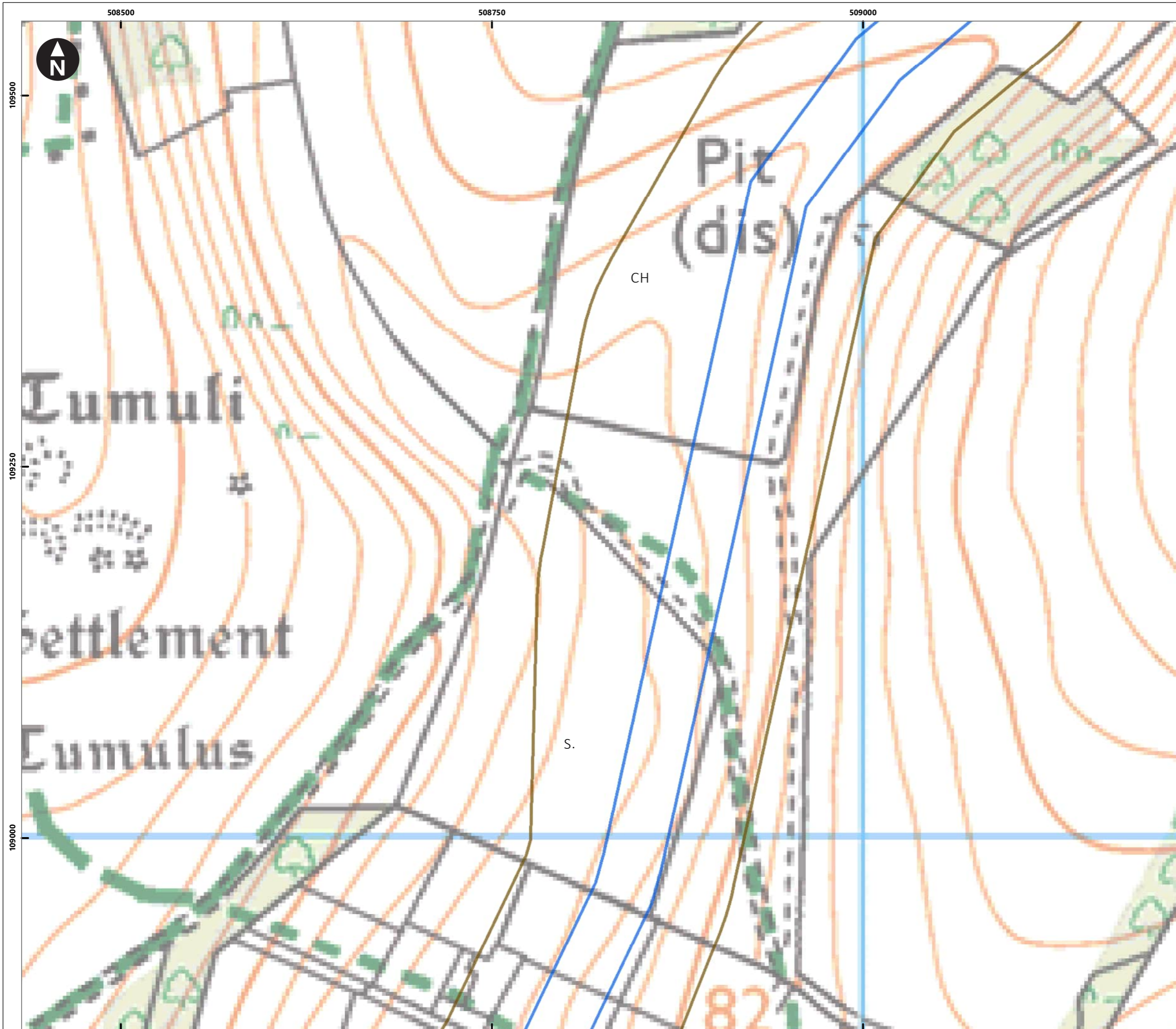
Figure 22.13.41 Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OO-6615	Version: 1.0
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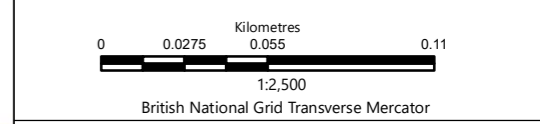
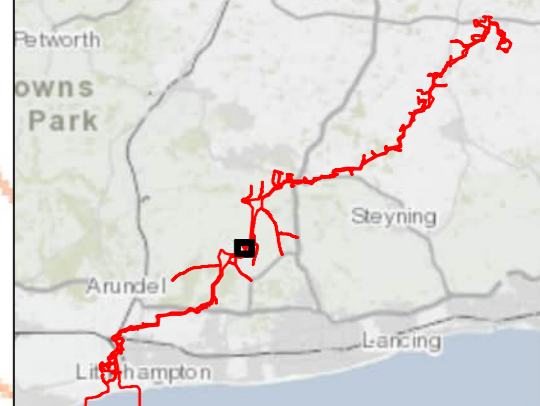
Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET	Drawn Date: 31/07/2023	Status: FINAL
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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

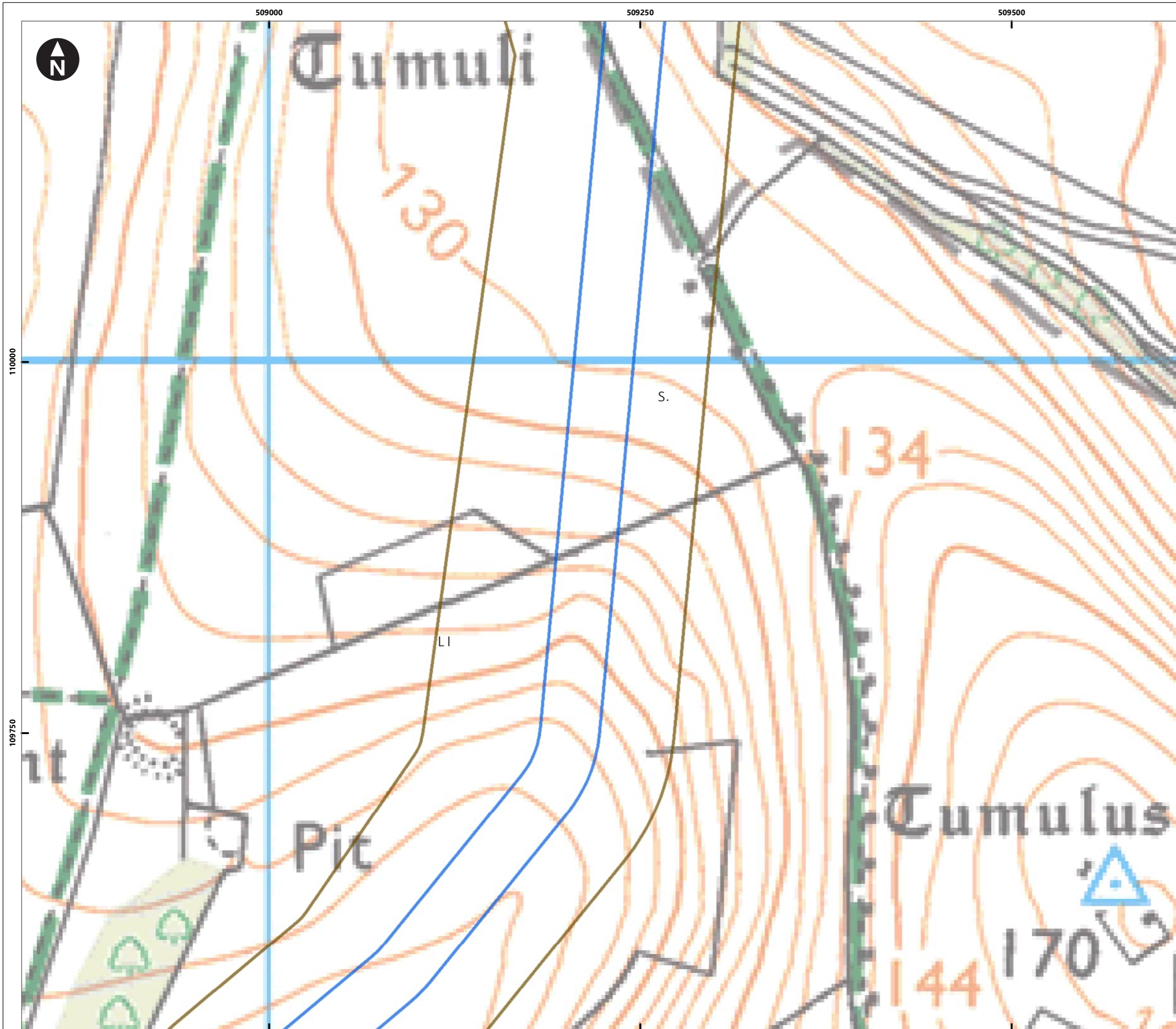
Figure 22.13.4m Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSP-ES-ON-FG-OO-6615	1.0

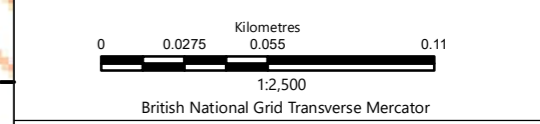
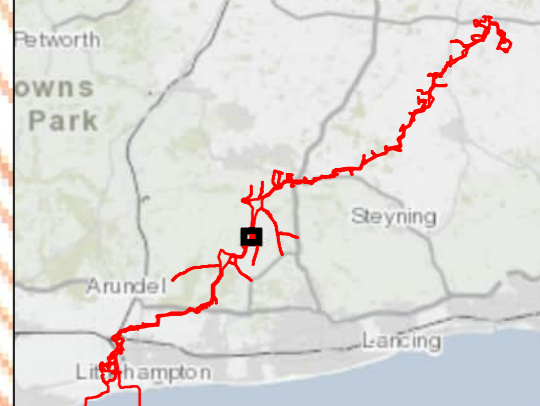
Company:	Drawn By:	Chk/Prvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion 2 Offshore Wind Farm

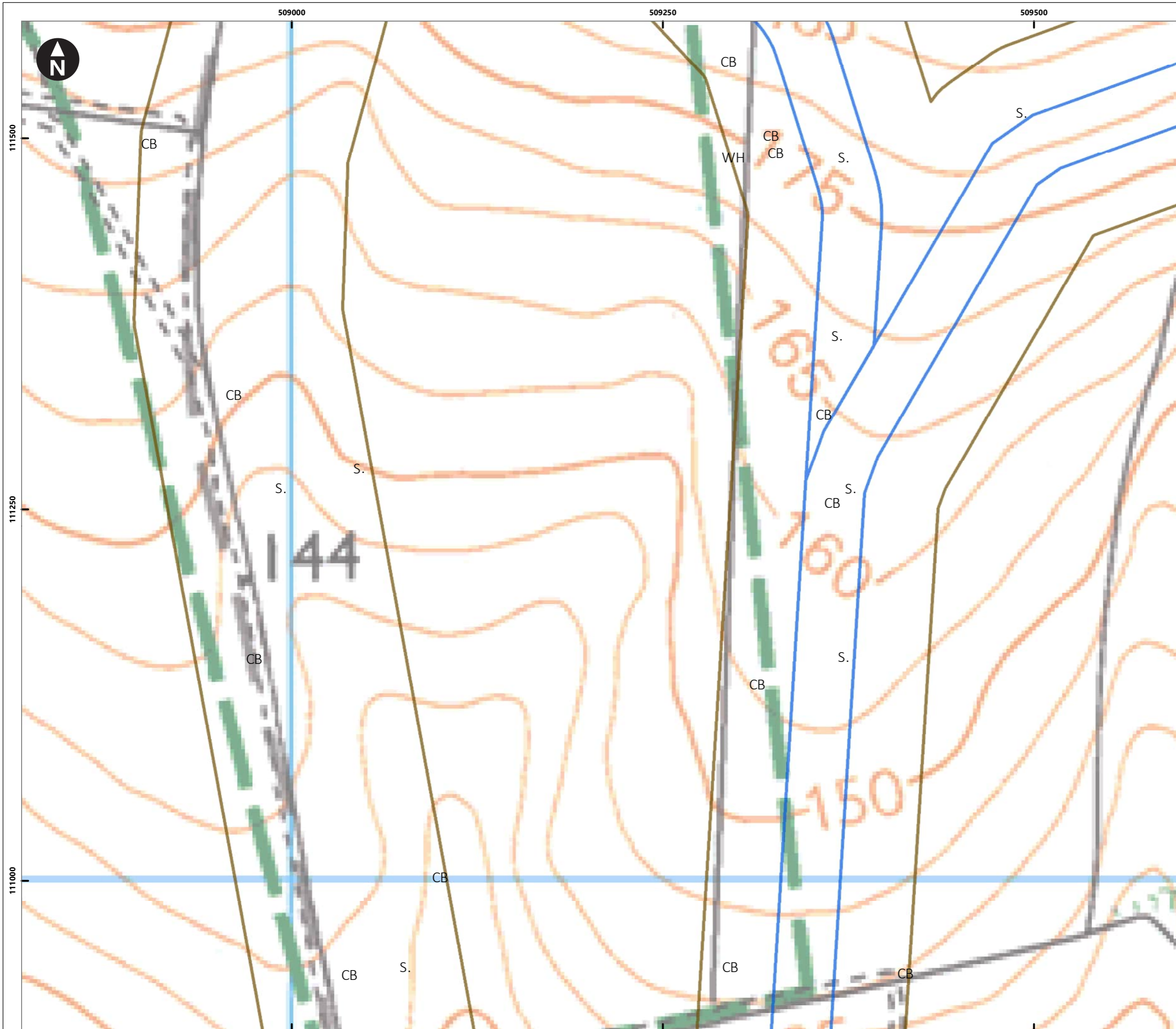
Figure 22.13.4n Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key

	Onshore substation	GJ	Greylag goose
	Construction corridor	GO	Goldfinch
	Construction corridor 50m buffer	GR	Greenfinch
	Temporary Construction Compounds	GT	Great tit
	Trenchless Crossing (TC) Compounds	GS	Great spotted woodpecker

Bird species

B.	Blackbird	K.	Kestrel
BC	Blackcap	L.	Lapwing
BT	Blue Tit	LI	Linnet
C.	Carrion Crow	LT	Long-tailed tit
CB	Corn bunting	LW	Lesser whitethroat
CC	Chiffchaff	MG	Magpie
CH	Chaffinch	MP	Meadow pipit
CT	Coal Tit	N.	Nightingale
CW	Cetti's Warbler	R.	Robin
D.	Duncock	RB	Reed bunting
FC	Firecrest	RW	Reed warbler
G.	Green woodpecker	S.	Skylark
GC	Goldcrest	SD	Stock dove
		SG	Starling
		ST	Song Thrush
		WH	Whitethroat
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer

0 0.0275 0.055 0.11
 1:2,500
 British National Grid Transverse Mercator

Rampion Extension Development

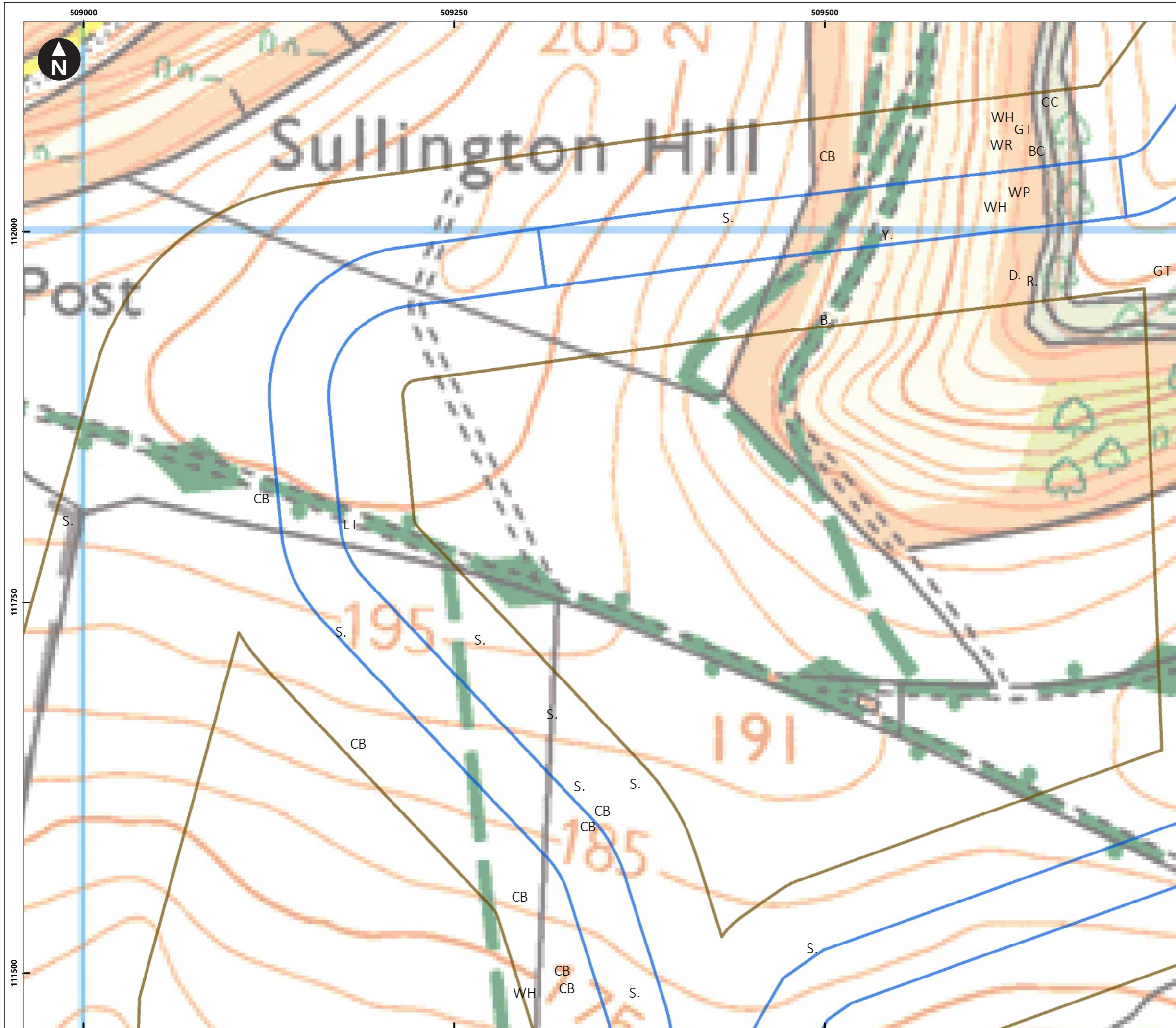
Rampion 2 Offshore Wind Farm

Figure 22.13.4p Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-6615		Version: 1.0
Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET
Drawn Date: 31/07/2023	Status: FINAL	



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B.	Blackbird	GJ	Greylag goose
BC	Blackcap	GO	Goldfinch
BT	Blue Tit	GR	Greenfinch
C.	Carrion Crow	GT	Great tit
CB	Corn bunting	GS	Great spotted woodpecker
CC	Chiffchaff	K.	Kestrel
CH	Chaffinch	L.	Lapwing
CT	Coal Tit	LI	Linnet
CW	Cetti's Warbler	LT	Long-tailed tit
D.	Dunnock	LW	Lesser whitethroat
FC	Firecrest	MG	Magpie
G.	Green woodpecker	MP	Meadow pipit
GC	Goldcrest	N.	Nightingale
		R.	Robin
		RB	Reed bunting
		RW	Reed warbler
		S.	Skylark
		SD	Stock dove
		SG	Starling
		ST	Song Thrush
		WH	Whitethroat
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer

Map Details:

- Scale: 1:2,500
- Scale bar: 0, 0.0275, 0.055, 0.11 Kilometres
- Projection: British National Grid Transverse Mercator

Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 22.13.4q Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OO-6615 | Version: 1.0

Company: WSP	Drawn By: HADJE	Chk/Prvd: SUTET	Drawn Date: 31/07/2023	Status: FINAL
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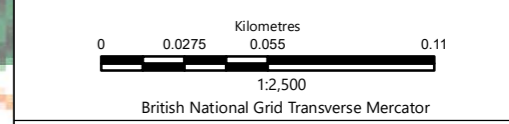


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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds

Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

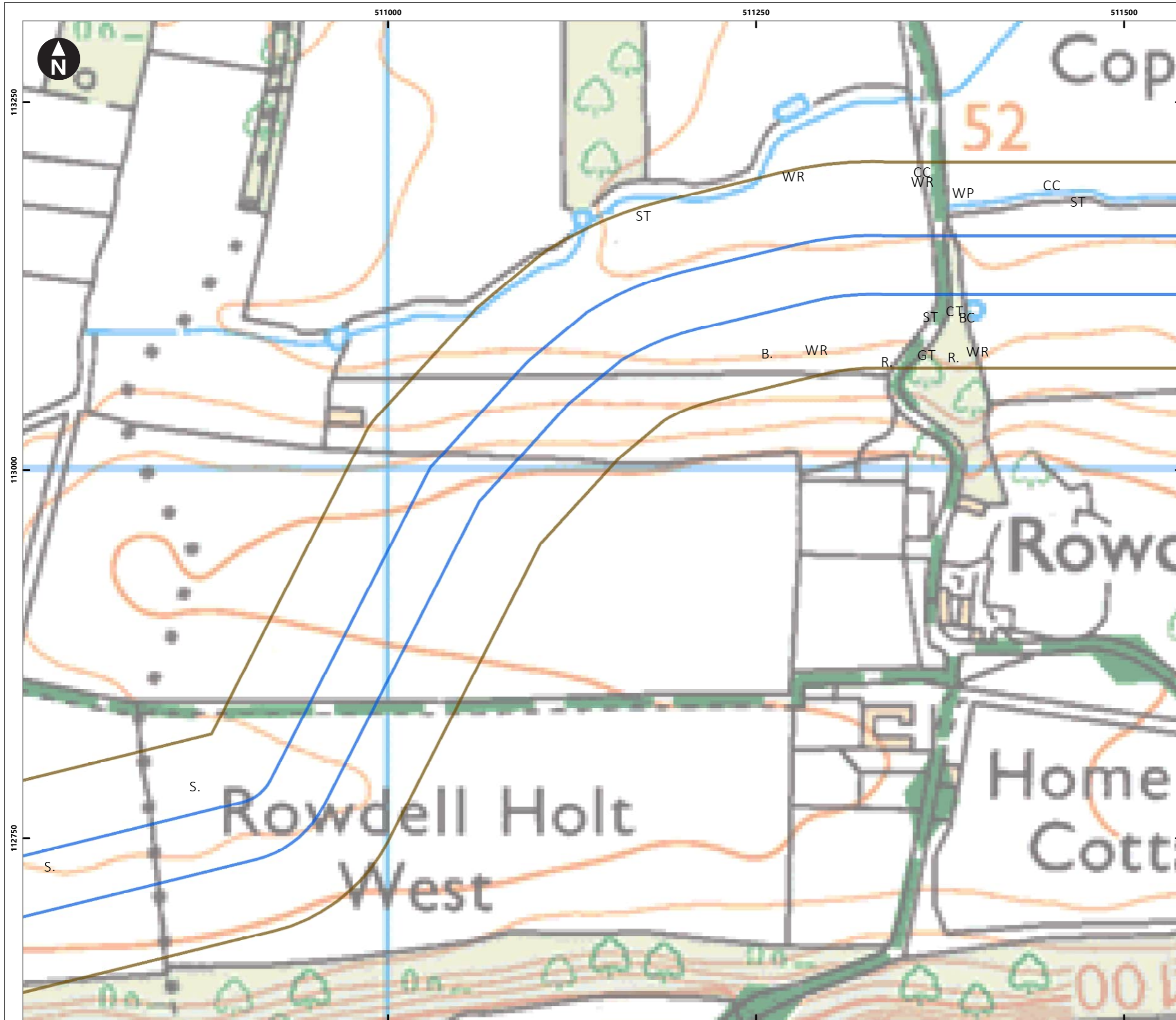
Figure 22.13.4r Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-6615	Version: 1.0
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Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET	Drawn Date: 31/07/2023	Status: FINAL
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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B.	Blackbird	GJ	Greylag goose
BC	Blackcap	GO	Goldfinch
BT	Blue Tit	GR	Greenfinch
C.	Carrion Crow	GT	Great tit
CB	Corn bunting	GS	Great spotted woodpecker
CC	Chiffchaff	K.	Kestrel
CH	Chaffinch	L.	Lapwing
CT	Coal Tit	LI	Linnet
CW	Cetti's Warbler	LT	Long-tailed tit
D.	Duncock	LW	Lesser whitethroat
FC	Firecrest	MG	Magpie
G.	Green woodpecker	MP	Meadow pipit
GC	Goldcrest	N.	Nightingale
		R.	Robin
		RB	Reed bunting
		RW	Reed warbler
		S.	Skylark
		SD	Stock dove
		SG	Starling
		ST	Song Thrush
		WH	Whitethroat
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer

0 0.0275 0.055 0.11
 1:2,500
 British National Grid Transverse Mercator

Rampion Extension Development

Rampion 2 Offshore Wind Farm

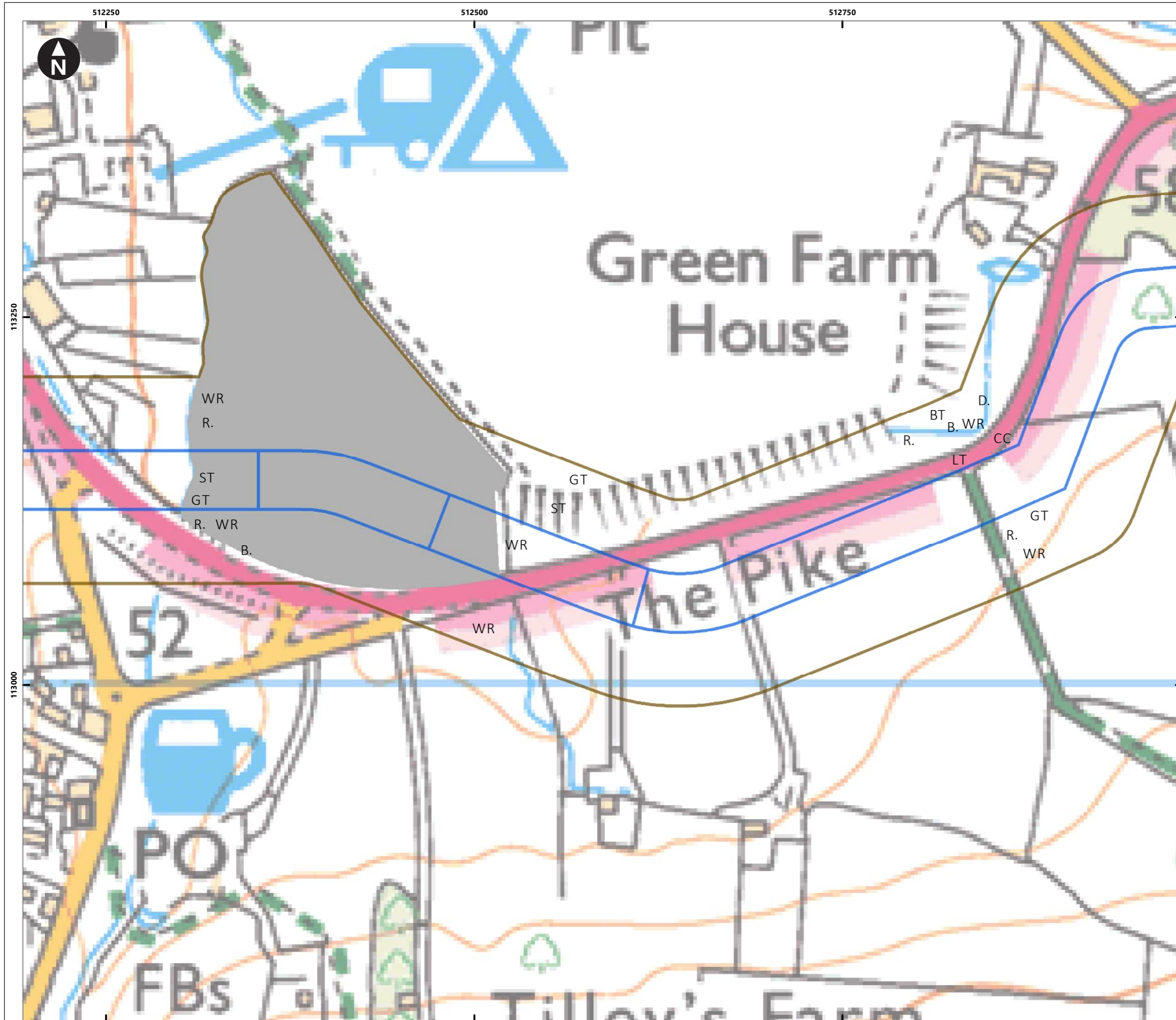
Figure 22.13.4s Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-6615	Version: 1.0
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Company: WSP	Drawn By: HADJE	Chk/Prvd: SUTET	Drawn Date: 31/07/2023	Status: FINAL
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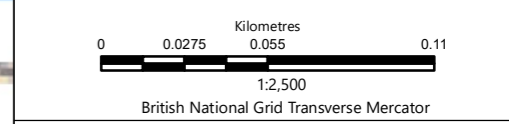


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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds

Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion 2 Offshore Wind Farm

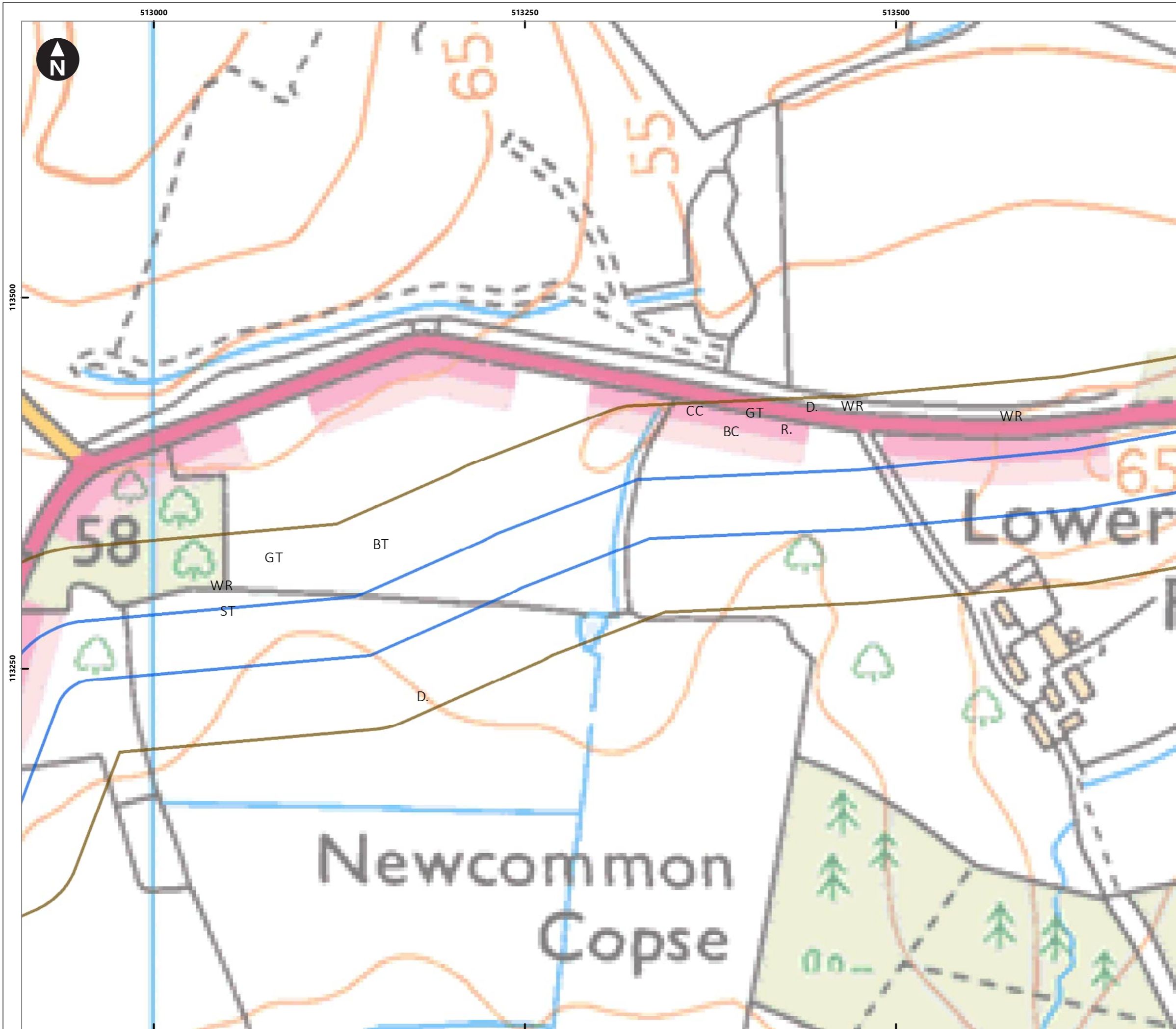
Figure 22.13.4t Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

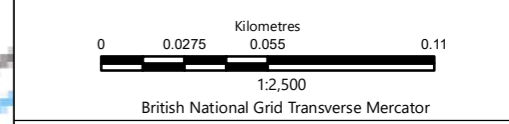
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WSP	HADJE	SUTET	31/07/2023	FINAL



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Dunnock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion 2 Offshore Wind Farm

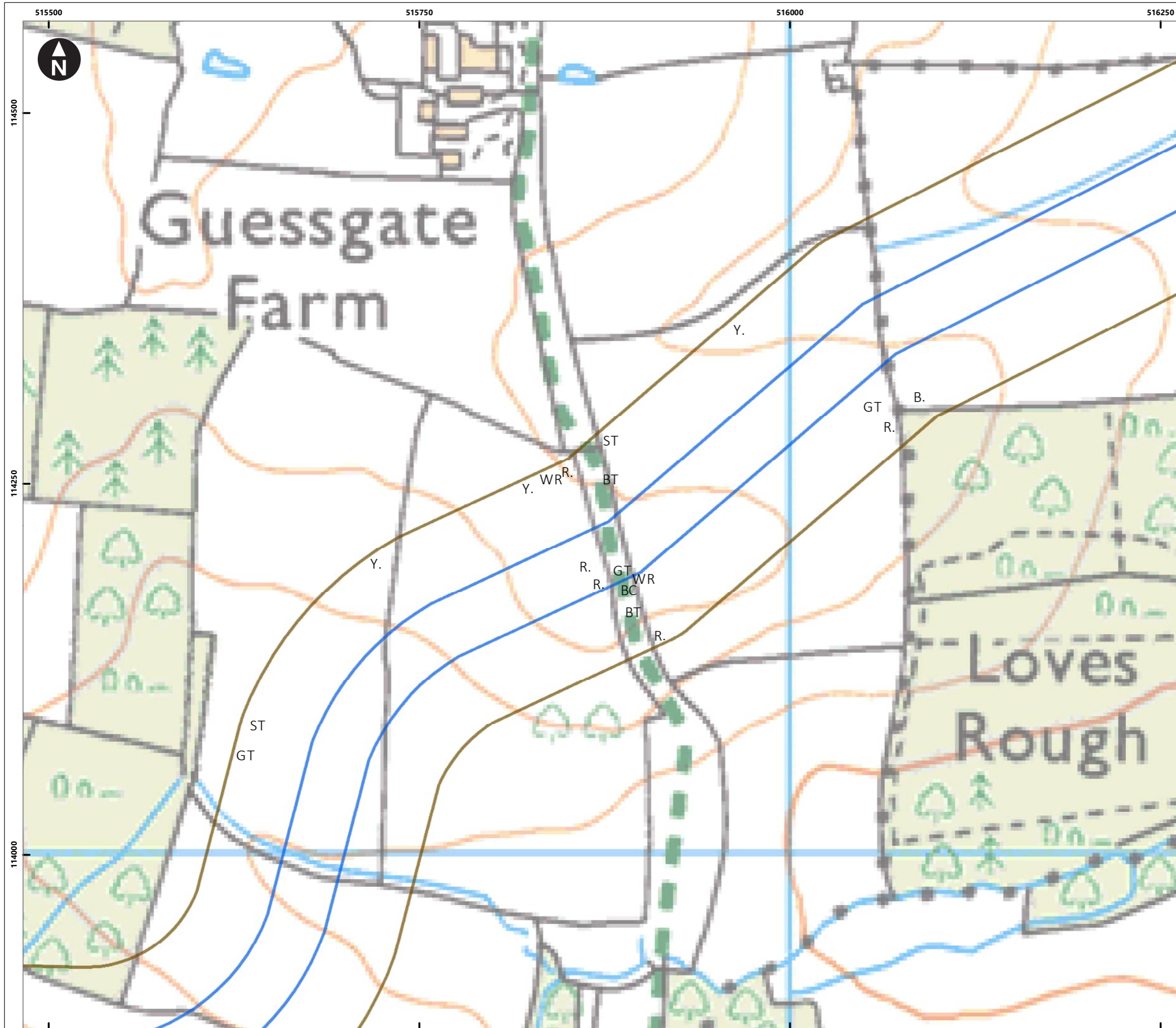
Figure 22.13.4u Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSP-ES-ON-FG-OO-6615	1.0

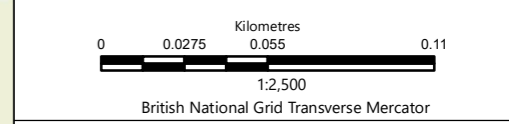
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WSP	HADJE	SUTET	31/07/2023	FINAL



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Dunnock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion 2 Offshore Wind Farm

Figure 22.13.4w Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSP-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B.	Blackbird	GJ	Greylag goose
BC	Blackcap	GO	Goldfinch
BT	Blue Tit	GR	Greenfinch
C.	Carrion Crow	GT	Great tit
CB	Corn bunting	GS	Great spotted woodpecker
CC	Chiffchaff	K.	Kestrel
CH	Chaffinch	L.	Lapwing
CT	Coal Tit	LI	Linnet
CW	Cetti's Warbler	LT	Long-tailed tit
D.	Duncock	LW	Lesser whitethroat
FC	Firecrest	MG	Magpie
G.	Green woodpecker	MP	Meadow pipit
GC	Goldcrest	N.	Nightingale
		R.	Robin
		RB	Reed bunting
		RW	Reed warbler
		S.	Skylark
		SD	Stock dove
		SG	Starling
		ST	Song Thrush
		WH	Whitethroat
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer

Inset Map: Shows the location of the study area in the South East of England, near Steyning and Arundel.

Scale: 0 to 0.11 Kilometres (0 to 0.055 miles). Scale: 1:2,500. British National Grid Transverse Mercator.

Rampion Extension Development

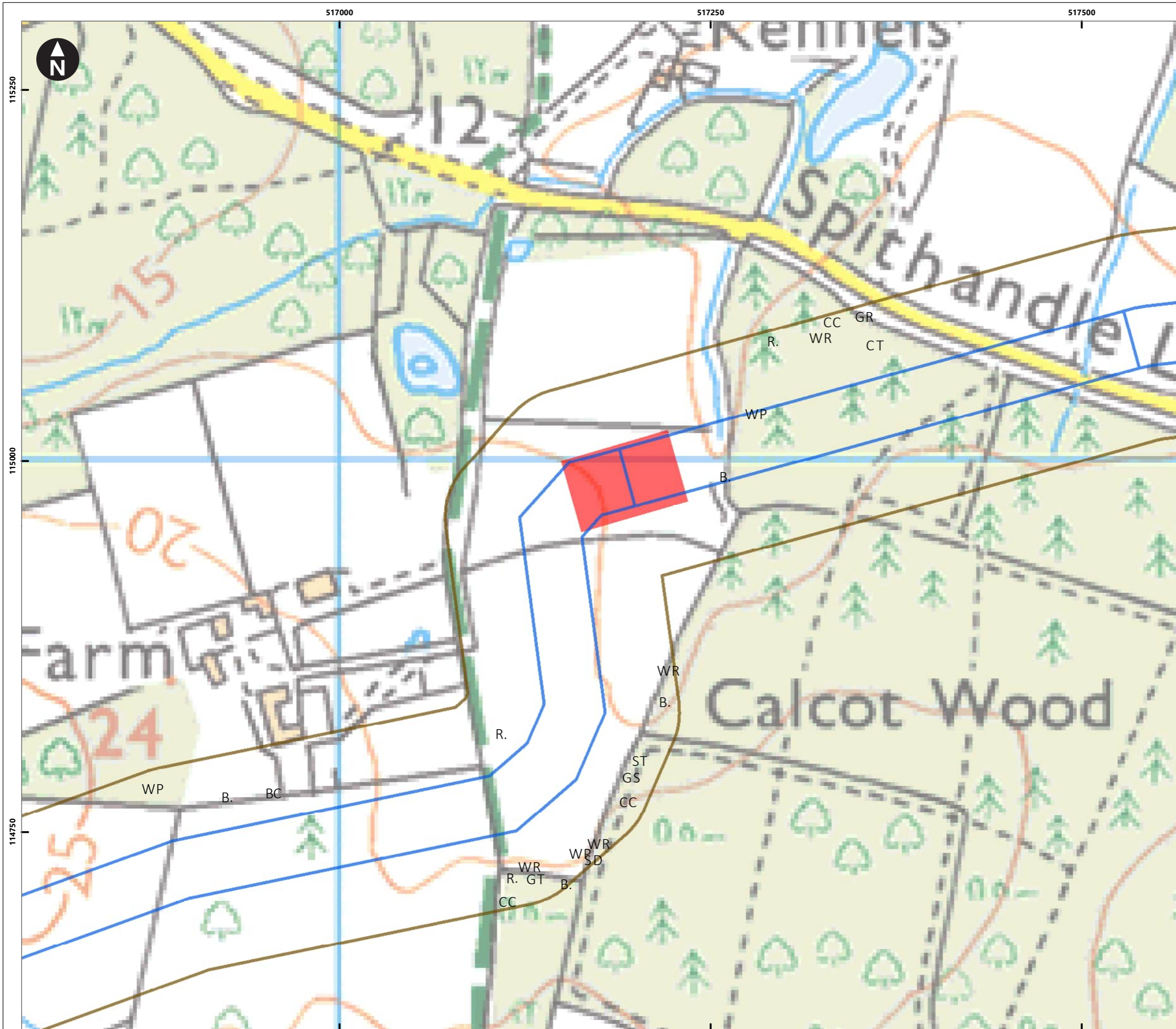
Rampion 2 Offshore Wind Farm

Figure 22.13.4x Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OO-6615		Version: 1.0
Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET
Drawn Date: 31/07/2023	Status: FINAL	

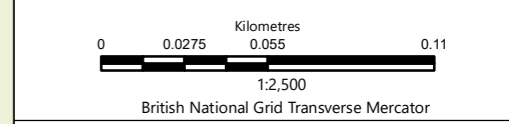


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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds

Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Dunnock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
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GT	Great tit
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N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



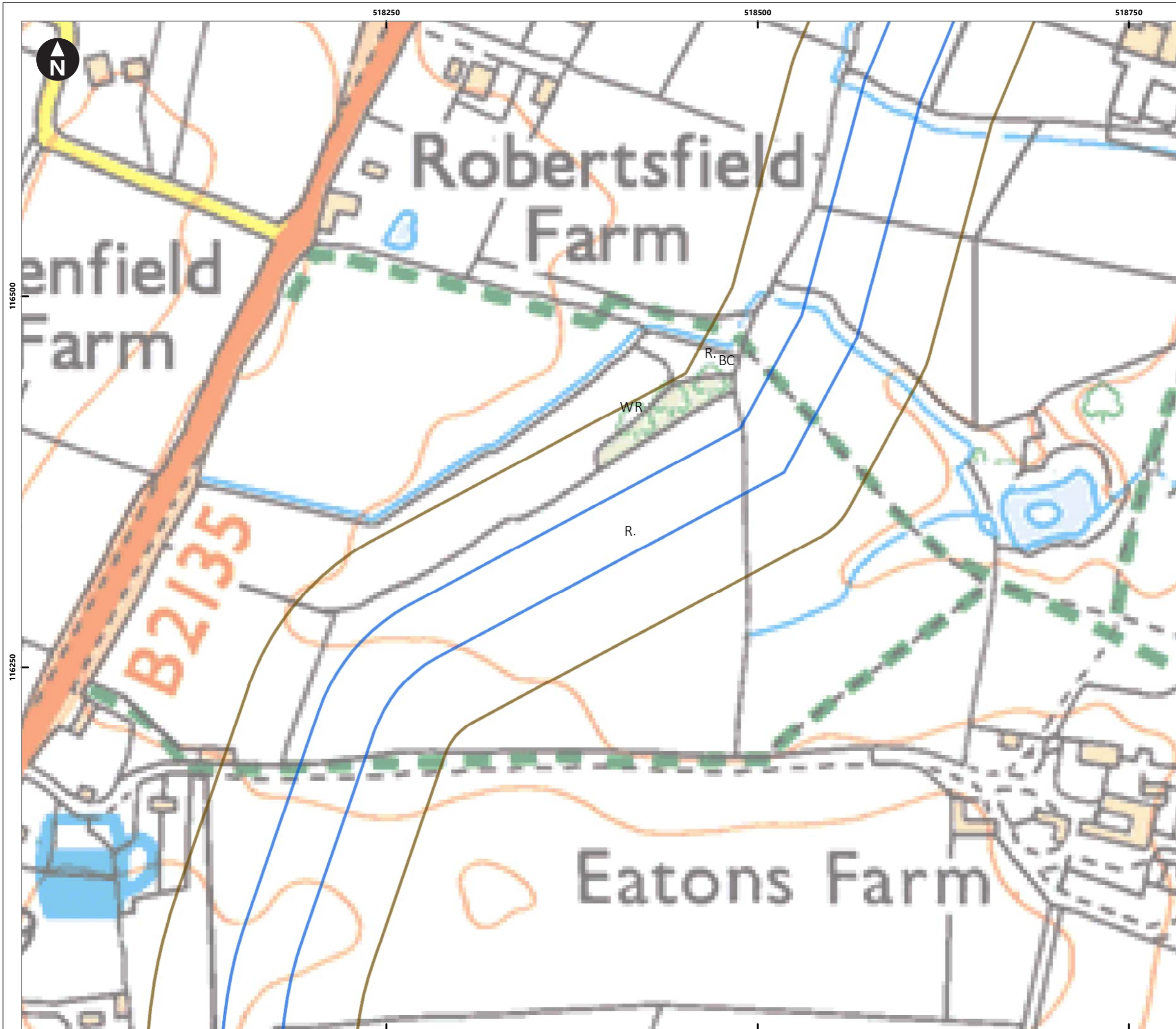
Rampion 2 Offshore Wind Farm

Figure 22.13.4y Breeding bird survey, indicative territory locations

Breeding bird survey
Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OO-6615	Version: 1.0
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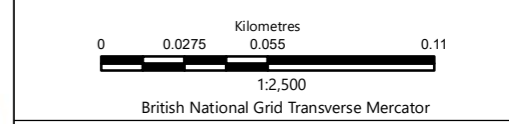
Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET	Drawn Date: 31/07/2023	Status: FINAL
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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
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GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
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LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion 2 Offshore Wind Farm

Figure 22.13.4za Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSP-ES-ON-FG-OO-6615	1.0

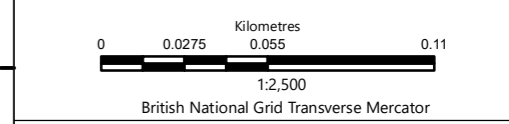
Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Dunnock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion 2 Offshore Wind Farm

Figure 22.13.4zb Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B.	Blackbird	GJ	Greylag goose
BC	Blackcap	GO	Goldfinch
BT	Blue Tit	GR	Greenfinch
C.	Carrion Crow	GT	Great tit
CB	Corn bunting	GS	Great spotted woodpecker
CC	Chiffchaff	K.	Kestrel
CH	Chaffinch	L.	Lapwing
CT	Coal Tit	LI	Linnet
CW	Cetti's Warbler	LT	Long-tailed tit
D.	Dunnock	LW	Lesser whitethroat
FC	Firecrest	MG	Magpie
G.	Green woodpecker	MP	Meadow pipit
GC	Goldcrest	N.	Nightingale
		R.	Robin
		RB	Reed bunting
		RW	Reed warbler
		S.	Skylark
		SD	Stock dove
		SG	Starling
		ST	Song Thrush
		WH	Whitethroat
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer

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 1:2,500
 British National Grid Transverse Mercator

Rampion Extension Development

Rampion 2 Offshore Wind Farm

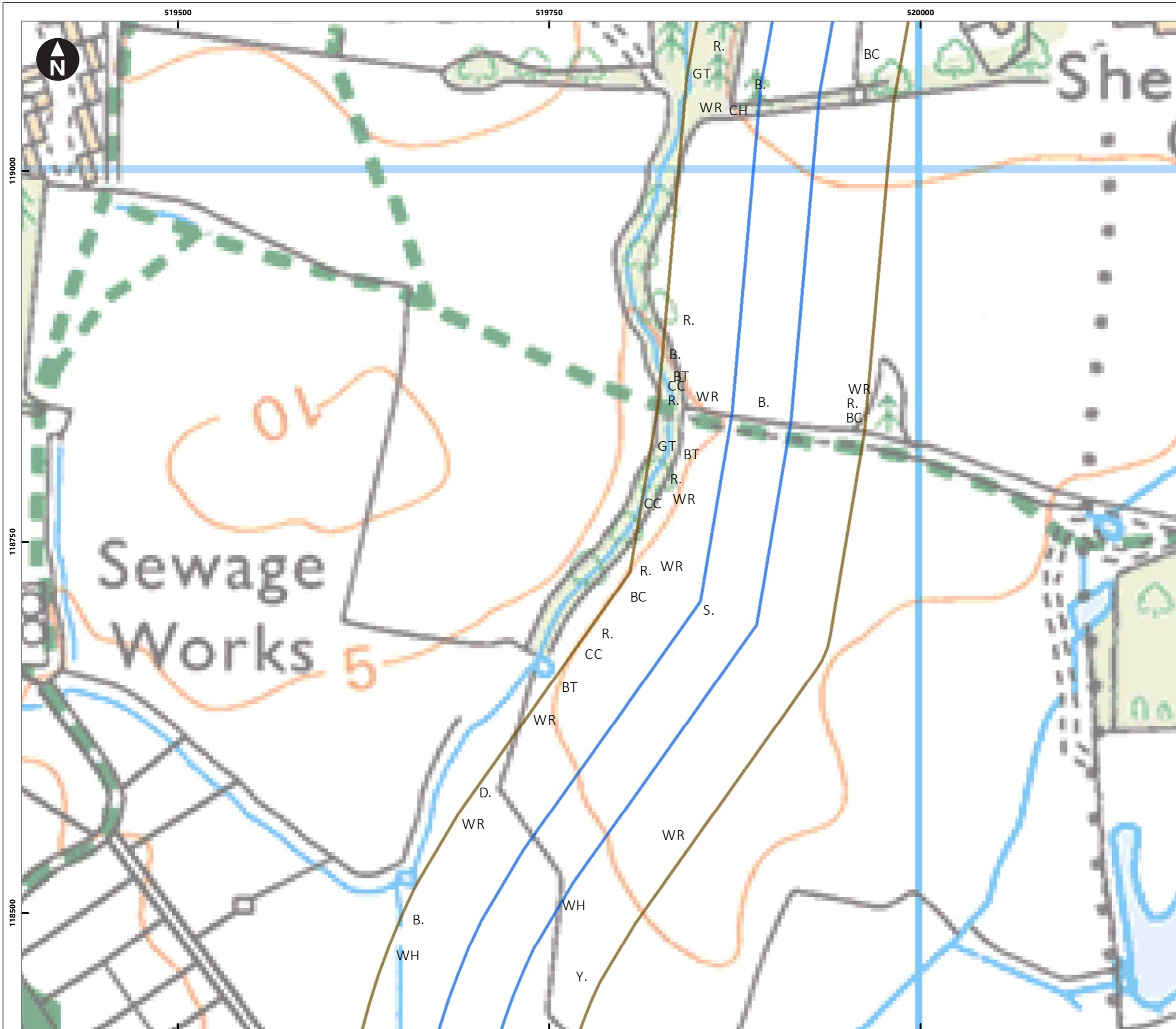
Figure 22.13.4zc Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OO-6615	Version: 1.0
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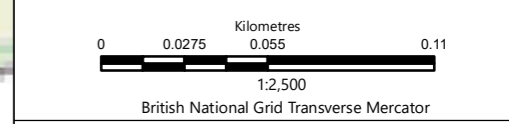
Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET	Drawn Date: 31/07/2023	Status: FINAL
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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Dunnock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

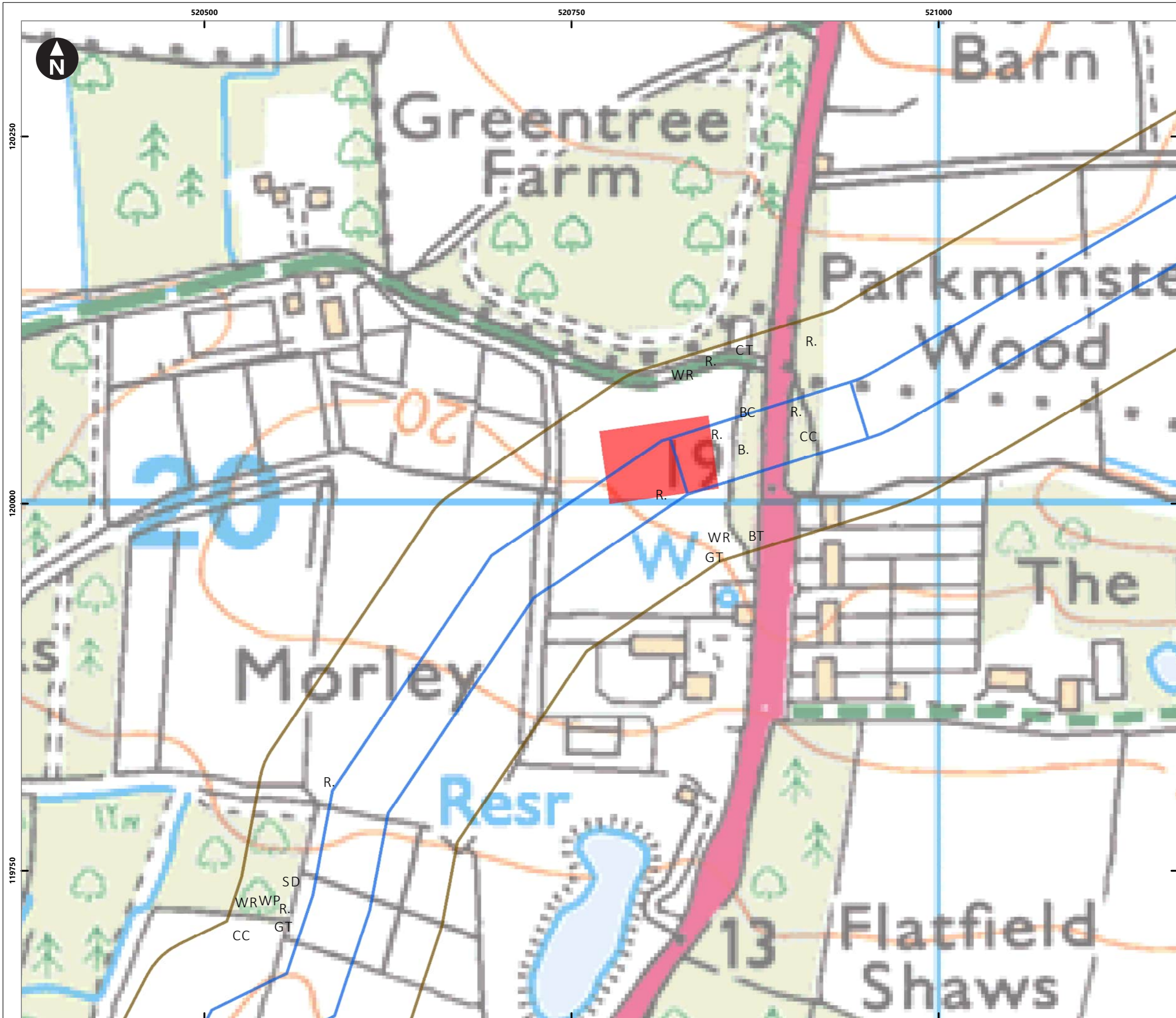
Figure 22.13.4zd Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B.	Blackbird	GJ	Greylag goose
BC	Blackcap	GO	Goldfinch
BT	Blue Tit	GR	Greenfinch
C.	Carrion Crow	GT	Great tit
CB	Corn bunting	GS	Great spotted woodpecker
CC	Chiffchaff	K.	Kestrel
CH	Chaffinch	L.	Lapwing
CT	Coal Tit	LI	Linnet
CW	Cetti's Warbler	LT	Long-tailed tit
D.	Duncock	LW	Lesser whitethroat
FC	Firecrest	MG	Magpie
G.	Green woodpecker	MP	Meadow pipit
GC	Goldcrest	N.	Nightingale
		R.	Robin
		RB	Reed bunting
		RW	Reed warbler
		S.	Skylark
		SD	Stock dove
		SG	Starling
		ST	Song Thrush
		WH	Whitethroat
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer

0 0.0275 0.055 0.11
 1:2,500
 British National Grid Transverse Mercator

Rampion Extension Development

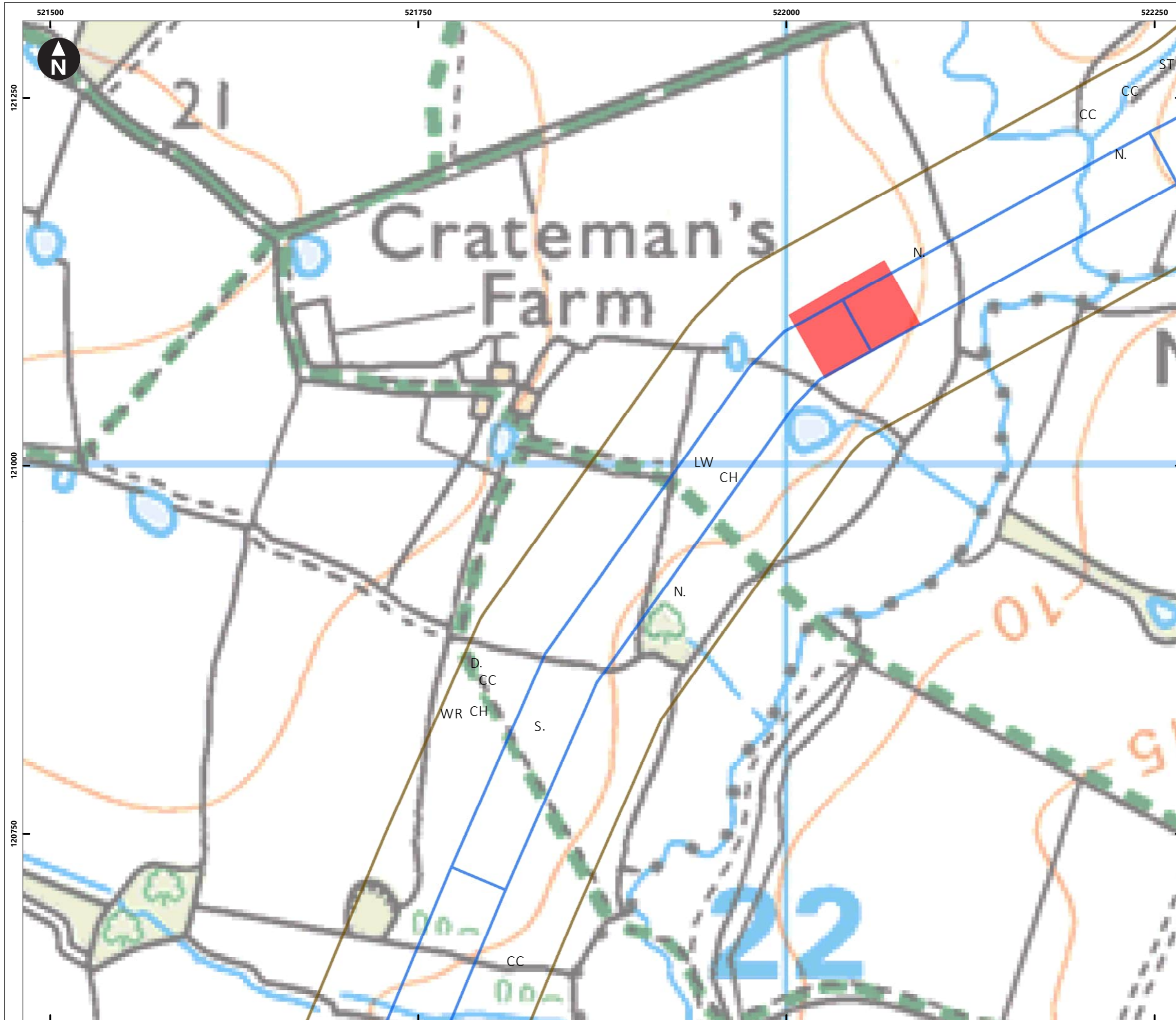
Rampion 2 Offshore Wind Farm

Figure 22.13.4zf Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OO-6615		Version: 1.0
Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET
Drawn Date: 31/07/2023	Status: FINAL	



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B. Blackbird	LI Linnet	LT Long-tailed tit
BC Blackcap	LW Lesser whitethroat	MG Magpie
BT Blue Tit	MP Meadow pipit	N. Nightingale
C. Carrion Crow	R. Robin	RB Reed bunting
CB Corn bunting	RW Reed warbler	S. Skylark
CC Chiffchaff	SD Stock dove	SG Starling
CH Chaffinch	ST Song Thrush	WH Whitethroat
CT Coal Tit	WP Woodpigeon	WR Wren
CW Cetti's Warbler	Y. Yellowhammer	
D. Dunnock		
FC Firecrest		
G. Green woodpecker		
GC Goldcrest		
GJ Greylag goose		
GO Goldfinch		
GR Greenfinch		
GT Great tit		
GS Great spotted woodpecker		
K. Kestrel		
L. Lapwing		

Inset Map: Shows the location of the site near Petworth, Arundel, and Lancing, with a red line indicating the project route.

Scale: 0 to 0.11 Kilometres (1:2,500). British National Grid Transverse Mercator.

Rampion Extension Development

Rampion 2 WIND FARM

Rampion 2 Offshore Wind Farm

Figure 22.13.4zg Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-OO-6615	Version: 1.0			
Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET	Drawn Date: 31/07/2023	Status: FINAL



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B. Blackbird	GO Goldcrest	GJ Greylag goose
BC Blackcap	GT Great tit	GO Goldfinch
BT Blue Tit	GR Greenfinch	GT Great tit
C. Carrion Crow	GS Great spotted woodpecker	GS Great spotted woodpecker
CB Corn bunting	K. Kestrel	K. Kestrel
CC Chiffchaff	L. Lapwing	L. Lapwing
CH Chaffinch	LI Linnet	LI Linnet
CT Coal Tit	LT Long-tailed tit	LT Long-tailed tit
CW Cetti's Warbler	LW Lesser whitethroat	LW Lesser whitethroat
D. Duncock	MG Magpie	MG Magpie
FC Firecrest	MP Meadow pipit	MP Meadow pipit
G. Green woodpecker	N. Nightingale	N. Nightingale
GC Goldcrest	R. Robin	R. Robin
	RB Reed bunting	RB Reed bunting
	RW Reed warbler	RW Reed warbler
	S. Skylark	S. Skylark
	SD Stock dove	SD Stock dove
	SG Starling	SG Starling
	ST Song Thrush	ST Song Thrush
	WH Whitethroat	WH Whitethroat
	WP Woodpigeon	WP Woodpigeon
	WR Wren	WR Wren
	Y. Yellowhammer	Y. Yellowhammer

Inset map showing the location of the study area near Petworth, Arundel, and Lymington.

Scale: 0 to 0.11 Kilometres (0.0275, 0.055, 0.11)
 1:2,500
 British National Grid Transverse Mercator

Rampion Extension Development

Rampion 2 WIND FARM

Rampion 2 Offshore Wind Farm

Figure 22.13.4zh Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

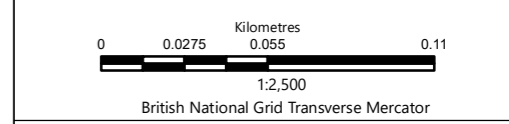
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Company: WSP	Drawn By: HADJE	Chk/Prvd: SUTET
Drawn Date: 31/07/2023	Status: FINAL	



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 22.13.4zi Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

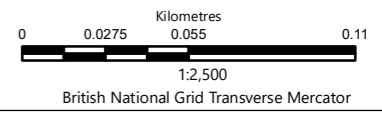
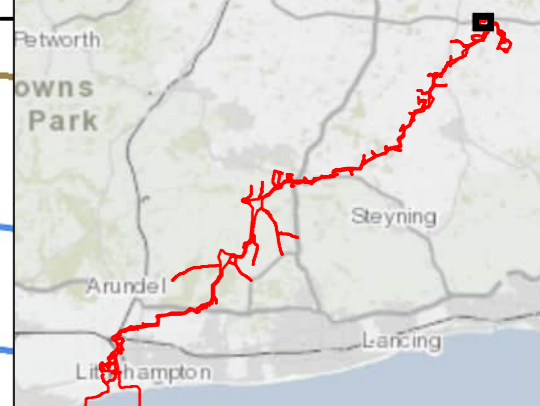
Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Dunnock
FC	Firecrest
G.	Green woodpecker
GC	Goldcrest
GJ	Greylag goose
GO	Goldfinch
GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
LT	Long-tailed tit
LW	Lesser whitethroat
MG	Maggpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

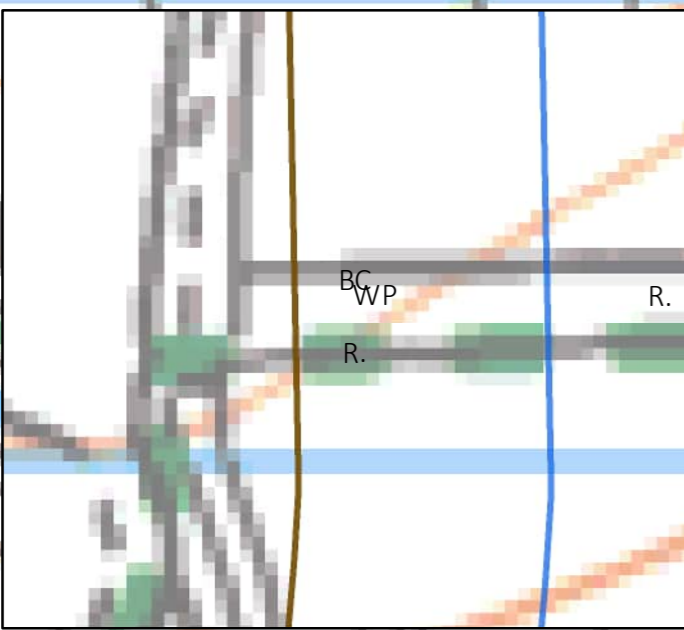
Figure 22.13.4zj Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

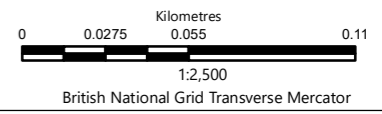
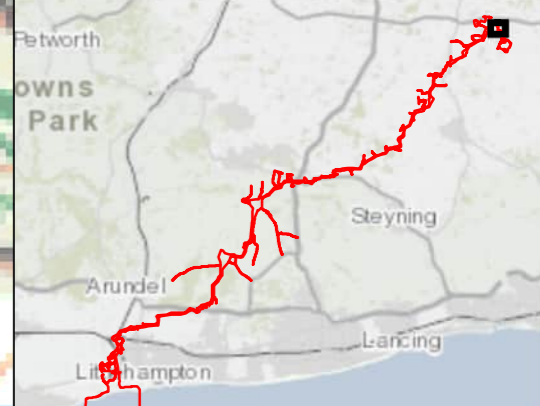
Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key	
	Onshore substation
	Construction corridor
	Construction corridor 50m buffer
	Temporary Construction Compounds
	Trenchless Crossing (TC) Compounds
Bird species	
B.	Blackbird
BC	Blackcap
BT	Blue Tit
C.	Carrion Crow
CB	Corn bunting
CC	Chiffchaff
CH	Chaffinch
CT	Coal Tit
CW	Cetti's Warbler
D.	Duncock
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G.	Green woodpecker
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GR	Greenfinch
GT	Great tit
GS	Great spotted woodpecker
K.	Kestrel
L.	Lapwing
LI	Linnet
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LW	Lesser whitethroat
MG	Magpie
MP	Meadow pipit
N.	Nightingale
R.	Robin
RB	Reed bunting
RW	Reed warbler
S.	Skylark
SD	Stock dove
SG	Starling
ST	Song Thrush
WH	Whitethroat
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 22.13.4zk Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier:	Version:
42285-WSPE-ES-ON-FG-OO-6615	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	HADJE	SUTET	31/07/2023	FINAL



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Key

- Onshore substation
- Construction corridor
- Construction corridor 50m buffer
- Temporary Construction Compounds
- Trenchless Crossing (TC) Compounds

Bird species

B.	Blackbird	GJ	Greylag goose
BC	Blackcap	GO	Goldfinch
BT	Blue Tit	GR	Greenfinch
C.	Carrion Crow	GT	Great tit
CB	Corn bunting	GS	Great spotted woodpecker
CC	Chiffchaff	K.	Kestrel
CH	Chaffinch	L.	Lapwing
CT	Coal Tit	LI	Linnet
CW	Cetti's Warbler	LT	Long-tailed tit
D.	Duncock	LW	Lesser whitethroat
FC	Firecrest	MG	Magpie
G.	Green woodpecker	MP	Meadow pipit
GC	Goldcrest	N.	Nightingale
		R.	Robin
		RB	Reed bunting
		RW	Reed warbler
		S.	Skylark
		SD	Stock dove
		SG	Starling
		ST	Song Thrush
		WH	Whitethroat
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer

Inset Map: Shows the location of the study area in the South East of England, near Arundel and Steyning.

Scale: 0 to 0.11 Kilometres (1:2,500). British National Grid Transverse Mercator.

Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 22.13.4z1 Breeding bird survey, indicative territory locations

Breeding bird survey

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-OO-6615		Version: 1.0
Company: WSP	Drawn By: HADJE	Chk/Aprvd: SUTET
Drawn Date: 31/07/2023	Status: FINAL	

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Annex B - Full species records

Table B-1 below lists all species recorded during the breeding bird surveys. This table includes all incidental sightings and those that could be assigned territories within the survey area. This table represents all species mentioned within this report.

Table B-1 Complete list of species recorded during the breeding bird surveys.

Species	Scientific name
Avocet	<i>Recurvirostra avosetta</i>
Blackbird	<i>Turdus merula</i>
Black-headed gull	<i>Chroicocephalus ridibundus</i>
Blackcap	<i>Sylvia atricapilla</i>
Blue tit	<i>Cyanistes caeruleus</i>
Bullfinch	<i>Pyrrhula pyrrhula</i>
Buzzard	<i>Buteo buteo</i>
Canada goose	<i>Branta canadensis</i>
Carrion crow	<i>Corvus corone</i>
Chaffinch	<i>Fringilla coelebs</i>
Chiffchaff	<i>Phylloscopus collybita</i>
Coal tit	<i>Parus ater</i>
Collared dove	<i>Streptopelia decaocto</i>
Common gull	<i>Larus canus</i>
Coot	<i>Fulica atra</i>
Cormorant	<i>Phalacrocorax carbo</i>
Corn bunting	<i>Emberiza calandra</i>
Cuckoo	<i>Cuculus canorus</i>
Curlew	<i>Numenius arquata</i>

Species	Scientific name
Dunnock	<i>Prunella modularis</i>
Dunlin	<i>Calidris alpina</i>
Egyptian goose	<i>Alopochen aegyptiaca</i>
Feral pigeon	<i>Columba livia domestica</i>
Fieldfare	<i>Turdus pilaris</i>
Firecrest	<i>Regulus ignicapilla</i>
Gadwall	<i>Mareca strepera</i>
Garden warbler	<i>Sylvia borin</i>
Goldcrest	<i>Morus bassanus</i>
Golden plover	<i>Pluvialis apricaria</i>
Goldfinch	<i>Carduelis carduelis</i>
Grasshopper Warbler	<i>Locustella naevia</i>
Great spotted woodpecker	<i>Dendrocopos major</i>
Great tit	<i>Parus major</i>
Greenfinch	<i>Chloris chloris</i>
Green woodpecker	<i>Picus viridis</i>
Grey wagtail	<i>Motacilla cinerea</i>
Grey heron	<i>Ardea cinerea</i>
Greylag goose	<i>Anser anser</i>
Grey partridge	<i>Perdix perdix</i>
Herring gull	<i>Larus argentatus</i>
Hobby	<i>Falco subbuteo</i>
House martin	<i>Delichon urbicum</i>
House sparrow	<i>Passer domesticus</i>
Jackdaw	<i>Corvus monedula</i>
Jay	<i>Garrulus glandarius</i>

Species	Scientific name
Kestrel	<i>Falco tinnunclus</i>
Kingfisher	<i>Alcedo atthis</i>
Lapwing	<i>Vanellus vanellus</i>
Lesser black-backed gull	<i>Larus fuscus</i>
Lesser whitethroat	<i>Curruca curruca</i>
Linnet	<i>Carduelis cannabina</i>
Little egret	<i>Egretta garzetta</i>
Little gull	<i>Hydrocoloeus minutus</i>
Little owl	<i>Athene noctua</i>
Little ringed plover	<i>Charadrius dubius</i>
Long-tailed tit	<i>Aegithalos caudatus</i>
Magpie	<i>Pica pica</i>
Mallard	<i>Anas platyrhynchos</i>
Marsh tit	<i>Poecile palustris</i>
Meadow pipit	<i>Anthus pratensis</i>
Mediterranean gull	<i>Ichthyaetus melanocephalus</i>
Mistle thrush	<i>Turdus viscivorus</i>
Moorhen	<i>Gallinula chloropus</i>
Mute swan	<i>Cygnus olor</i>
Nightingale	<i>Luscinia megarhynchos</i>
Nuthatch	<i>Sitta europea</i>
Oystercatcher	<i>Haematopus ostralegus</i>
Peregrine	<i>Falco peregrinus</i>
Pheasant	<i>Phasianus colchicus</i>
Pied wagtail	<i>Motacilla alba yarrellii</i>
Raven	<i>Corvus corax</i>

Species	Scientific name
Red kite	<i>Milvus milvus</i>
Red-legged partridge	<i>Alectoris rufa</i>
Redshank	<i>Tringa totanus</i>
Redstart	<i>Phoenicurus phoenicurus</i>
Redwing	<i>Turdus iliacus</i>
Reed bunting	<i>Emberiza schoeniclus</i>
Reed warbler	<i>Acrocephalus scirpaceus</i>
Robin	<i>Erithacus rubecula</i>
Rook	<i>Corvus frugilegus</i>
Sand martin	<i>Riparia riparia</i>
Sedge warbler	<i>Acrocephalus schoenobaenus</i>
Siskin	<i>Spinus spinus</i>
Skylark	<i>Alauda arvensis</i>
Snipe	<i>Gallinago gallinago</i>
Song thrush	<i>Turdus philomelos</i>
Sparrowhawk	<i>Accipiter nisus</i>
Starling	<i>Sturnus vulgaris</i>
Stock dove	<i>Columba oenas</i>
Stonechat	<i>Saxicola rubicola</i>
Swallow	<i>Hirundo rustica</i>
Swift	<i>Apus apus</i>
Tawny owl	<i>Strix aluco</i>
Teal	<i>Anas crecca</i>
Treecreeper	<i>Certhia familiaris</i>
Turtle dove	<i>Streptopelia turtur</i>
Wheatear	<i>Oenanthe oenanthe</i>

Species	Scientific name
Whitethroat	<i>Curruca communis</i>
Wigeon	<i>Mareca penelope</i>
Willow warbler	<i>Phylloscopus trochilus</i>
Woodpigeon	<i>Columba palumbus</i>
Wren	<i>Troglodytes troglodytes</i>
Yellowhammer	<i>Emberiza citrinella</i>
Yellow wagtail	<i>Motacilla flava flavissima</i>



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Annex C - Full survey details

Full survey details of the breeding bird surveys are shown below in **Table C-1**.

Table C-1 Full survey details of breeding bird surveys.

Date	Visit number	Survey Area	Start time	End time	Weather conditions
25/03/2021	1	1,2,3,7,10	06:15	11:00	Dry, 1/8 Oktas cloud, Beaufort 1 westerly, visibility > 3km, 5°C
26/03/2021	1	8,9,11,12, 13, 14, 15, 16	06:30	12:00	Dry, 4/8 Oktas cloud, Beaufort 4 westerly, visibility > 3km, 5°C
06/04/2021	2	1,2,3,8,9	06:45	12:00	Dry, 2/8 Oktas cloud, Beaufort 1 north-easterly, visibility > 3km, 2°C, ground frost
07/04/2021	2	10,11,12	06:45	12:00	Dry, 0/8 Oktas cloud, Beaufort 1 north-easterly, visibility > 3km, 3°C
08/04/2021	2	7,13,14,15,16	06:40	12:00	Dry, 7/8 Oktas cloud, Beaufort 2 south-westerly, visibility > 3km, 5°C
20/04/2021	3	1,2,3,8,9,10,11,14	06:20	12:00	Dry, 0/8 Oktas cloud, Beaufort 1 easterly, visibility > 3km, 4°C

Date	Visit number	Survey Area	Start time	End time	Weather conditions
21/04/2021	3	12,13,14,	06:20	12:00	Dry, 3/8 Oktas cloud, Beaufort 1 westerly, visibility > 3km, 6°C
22/04/2021	3	7,15,16	06:20	12:00	Dry, 0/8 Oktas cloud, Beaufort 1 northerly, visibility > 3km, 8°C
04/05/2021	4	7,	06:20	12:00	Dry, 4/8 Oktas cloud, Beaufort 4 north-westerly, visibility > 3km, 6°C
05/05/2021	4	1,3,12,13,14,16	05:45	11:30	Dry, 0/8 Oktas cloud, Beaufort 2 westerly, visibility > 3km, 7°C
06/05/2021	4	2,10,11,15	05:30	12:00	Dry, 7/8 Oktas cloud, Beaufort 1 south-westerly, visibility > 3km, 2°C to 10°C
19/05/2021	5	7,14,16	05:15	11:30	Light showers, 8/8 Oktas, Beaufort 1 westerly, visibility > 3km, 9°C
20/05/2021	5	1,2,3,8,9,10,11,12,13,15	05:15	13:30	Dry, 7/8 Oktas cloud, Beaufort 2 south-westerly, visibility > 3km, 10°C
08/06/2021	6	7	05:00	11:30	Dry, 0/8 Oktas cloud, Beaufort 1 south-westerly, visibility > 3km, 9°C
09/06/2021	6	12,13,14,15, 16	05:00	11:00	Dry, 0/8 Oktas cloud, Beaufort 1 south-westerly, visibility > 3km, 9°C
10/06/2021	6	1,2,3,14	05:00	11:00	Light showers, 8/8 Oktas cloud, Beaufort 3 south-westerly, visibility > 3km, 17°C

Date	Visit number	Survey Area	Start time	End time	Weather conditions
29/03/2023	1	4,5	07:00	12:00	Light rain, 8/8 Oktas cloud, Beaufort 2 south-westerly, visibility 100 – 500m, 8°C
30/03/2023	1	6	06:45	11:30	Dry, 5/8 Oktas cloud, Beaufort 2 westerly, visibility > 3km, 10°C
19/04/2023	2	6	06:00	13:00	Light rain, 8/8 Oktas cloud, Beaufort 4 south-easterly, visibility < 50m, 9°C
26/04/2023	3	4,5,6	06:00	11:00	Dry, 0/8 Oktas cloud, Beaufort 3 southerly, visibility > 3km, 6°C
27/04/2023	3	6	06:00	10:00	Dry, 7/8 Oktas cloud, Beaufort 1 north-westerly, visibility > 3 km, 10°C
11/05/2023	4	4,5,6	06:00	11:00	Light rain showers, 4/8 Oktas cloud, Beaufort 2 north-easterly, visibility > 3km, 9°C
12/05/2023	4	6	06:00	10:00	Dry, 5/8 Oktas cloud, Beaufort 3 easterly, visibility > 3km, 10°C
22/05/2023	5	4,5,6	05:45	11:00	Dry, 5/8 Oktas cloud, Beaufort 4 easterly, visibility > 3km, 10°C
23/05/2023	5	6	05:45	09:00	Light rain shower, 8/8 Oktas cloud, Beaufort 5 westerly, visibility > 3km, 10°C

Date	Visit number	Survey Area	Start time	End time	Weather conditions
01/06/2023	6	4,5,6	06:00	10:30	Dry, 4/8 Oktas cloud, Beaufort 4 easterly, visibility > 3km, 15°C
02/06/2023	6	6	06:00	10:30	Dry, 1/8 Oktas cloud, Beaufort 2 easterly, visibility > 3km, 15°C

During visit six 2021 there was no access available, including via PRow to cover areas 8,9,10 or 11. During all visits in 2023, access was restricted to PRow only within areas 4 and 5, there were further restrictions on the use of the PRow as ongoing construction works in Lyminster closed a stretch of PRow within area 4. These areas therefore received less coverage than some other areas as described in Section 2.2.32 Deviations, constraints and limitations.

Annex D

Territory mapping criteria

Territory mapping criteria has been taken from Amar *et al.* (2006). This paper adapted the original methodologies of Marchant, (1983) and Gilbert *et al.* (1998) to focus on how to attribute territories using fewer visits than the original methodology dictates. The paper attributes indicative territory locations based on four CBC visits, whereas during the fieldwork for this project six survey visits were undertaken in order to provide a more robust assessment:

At the end of the fieldwork all the registrations were transferred to 'species maps' on which the letter of the visit (A,B,C,D,E,F) was substituted for the species symbol, the registrations were plotted in exactly the same locations, and using exactly the same activity codes, as those on the original visit maps. The information on these maps was then used to make an assessment of numbers of breeding birds.

In view of the reduction of the number of visits from eight to 10 to six, modified criteria were used for analysing the census maps. The following principles were used to define territory clusters on the species maps:

- 1. The minimum number of visit registrations (from different visits) used to form a territory was two, although as many registrations as possible were placed into a single territory.*
- 2. Registrations of songbirds alone and in song could stand alone as a territory.*
- 3. A lone bird alarm-calling or giving other vocalisations thought to have strong territorial significance was acceptable as a territory.*
- 4. The presence of an occupied nest on just one visit, with no other registrations was acceptable as a territory.*
- 5. A lone songbird not in song could not count as a territory, regardless of whether it was located toward the middle of the plot or near the edges.*
- 6. A territory was not counted where there was just a single registration of a bird in mid-flight.*
- 7. The presence of a family on a single visit (juvenile birds with attendant parents) was not permitted as a territory, since they may have moved into the area from outside the CBC plot. Unless it is apparent that the nest location is within the vicinity i.e. the young are 'branched' or grounded and flightless.*
- 8. A lone pair was permitted as a territory, provided that the birds were not in mid-flight. In instances involving pairs of birds in flight, territories were only permitted when the pair was recorded taking off from a fixed point, e.g., a tree or the ground (but excluded when they had been seen in mid-flight). Such registrations were acceptable even if the sex of the individuals was not known, because this would follow the rationale already widely used and accepted in CBC territory analysis.*

9. For species that are semi-colonial, or occur in large groups where it may be hard to define separate individual territories (e.g., jackdaw) the numbers of birds per visit were added up. The maximum count was then divided by two to give the number of territories.

All territories falling at least partly inside the plot were included in the plot totals, even when some of the registrations forming the territory cluster fell outside the plot boundaries.

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