



Steeple Renewables Project

Environmental Impact Assessment Scoping Report Appendix 8A: Designated Sites

Land at Sturton-le-Steeple, Nottinghamshire

Prepared by: BSG Ecology



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1. Appendix 8A: Designated Sites

1.1 Desk study methodology

- 1.1.1 A data search for records of protected and notable species, and non-statutory local designated sites within 2km of the Site was requested from Nottinghamshire Biodiversity Records Centre (NBRC) and Lincolnshire Environmental Records Centre (LERC) in March 2024.
- 1.1.2 The MAGIC application (Defra, 2024a) was accessed, most recently in March 2024, to identify any nationally designated statutory sites of nature conservation interest within 5 km of the Site, such as Sites of Special Scientific Interest (SSSI). The desk study has also considered the location of the Site with respect to Natural England's Impact Risk Zones (IRZ) for statutorily designated sites.
- 1.1.3 A search for internationally designated sites of nature conservation interest, such as Ramsar Sites, proposed Ramsar Sites, Special Protection Areas (SPAs), Potential SPAs (pSPAs), Special Areas of Conservation (SACs), Possible SACs (pSACs), Candidate SACs (cSACs), and Sites of Community Importance (SCIs) was undertaken within 10 km of the Site. The search was extended to 30 km for SPAs and Ramsar Sites, as well as any SACs that include bats as qualifying features.
- 1.1.4 In the absence of prescriptive industry guidance on search areas on which to base the desk study, the distances of 2 km, 5 km, 10 km and 30 km have been decided with consideration to multiple factors. These include the CIEEM (2018) guidelines on determining Zones of Influence, consideration of the potential value of the Site to qualifying features, whether there are functional linkages from the Site to the wider landscape, the scale of the proposed scheme, as well as precedents set during the assessment of other NSIP schemes of similar nature.

1.2 **Results**

Statutory designated sites

1.2.1 Within the search areas, there are five biological SSSIs, four SACs, one SPA and one Ramsar site). The location, designation and description for each site are described in Table 8.A.1 and shown on Figures 8.A.1, 8.A.2 and 8.A.3.

Table 8.A.1: Statutory designated sites (biological only) within the desk study area.

Site name	Designation	Distance from the Site	Summary of designation rational
Clarborough Tunnel	SSSI	40m southwest	Notifiedforitsunimprovedcalcareousgrasslandthathaveformed on the cuttingsandspoilheapsassociatedwiththeoperational railway.
Lea Marsh	SSSI	1.6km north	Unimproved floodplain meadow and wet pasture adjacent to the River Trent. Supports a number of scarce plant species and notable breeding wading bird species.
Chesterfield Canal	SSSI	1.9km west	Nationally uncommon aquatic plant communities.
Ashton's Meadow	SSSI	2.2km south	Unimproved, species- rich neutral grassland.
Treswell Wood	SSSI	2.5km south	Ash-oak-maple wood and ancient semi-natural woodland on heavy clay soils.
Birklands and Bilhaugh	SAC	19.5km north	Lowland raised bog, that supports Annex I habitat 'degraded raised bogs still capable of natural regeneration'. Is also

Site name	Designation	Distance from the Site	Summary of designation rational
			notable for its invertebrate fauna.
Thorne and Hatfield Moors	SPA	19.5km north	Supports populations of European nightjar Caprimulgus europaeus, which is closely associated with lowland heathland and felled or recently planted conifer plantations. The site also supports small numbers (at non- qualifying levels) of other Annex I species: hen harrier Circus cyaneus, merlin Falco columbarius, short-eared owl Asio flammeus and hobby Falco subbuteo.
Humber Estuary	SAC	26.5km north	Supports various Annex I costal habitats, and Annex II species sea lamprey <i>Petromyzon</i> <i>marinus</i> , River lamprey <i>Lampetra fluviatilis</i> and grey seal <i>Halichoerus</i> <i>grypus</i> .
Humber Estuary	Ramsar	26.5km north	A representative example of a near-natural estuary with the following component habitats: dune systems and humid

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Site name	Designation	Distance from the Site	Summary of designation rational
			dune slacks, estuarine waters, intertidal mud and sand flats, saltmarshes, and coastal brackish/saline lagoons. Supports internationally important assemblages of passage and wintering waders and waterfowl, as well as supporting aquatic and marine species.
Thorne Moor	SAC	28.5km north	Lowland raised bog, that supports Annex I habitat 'degraded raised bogs still capable of natural regeneration'. Is also notable for its invertebrate fauna.

Non-statutory designated sites and ancient woodland

1.2.2 There are 32 non-statutory designated sites and two ancient semi-natural woodlands (ASNW) or plantations on ancient woodland sites (PAWS) within the search area. Six of the LWS (also referred to as Sites of Nature Conservation [SINCs] in Nottinghamshire) are within the Site boundary. Summary details of the non-statutory designated sites and ancient woodlands within the search area are provided in **Table 8.A.2** below.

Table 8.A.2: Non-statutory designated sites and ancient woodland within 2 km of the Site.

Site Name and Designation	Distance from Site	Feature(s) of interest
Nottinghamshire SII	NCs	
Blue Stocking Lane, Clarborough	Partially within the Site	A green lane with species-rich grassland and hedgerows.
Thornhill Lane Drain, Littleborough	Within the Site	A drain of interest for water beetles.
Mother Drain, Upper Ings	Partially within the Site	A drain of interest for water beetles.
Out Ings	Within the Site	A diverse mosaic of grassland, open water and carr communities adjacent to the River Trent.
Littleborough Lagoons	Within the Site	A shallow lagoon with flood bank and drain of botanical and ornithological importance.
High House Road Verges, Sturton Le Steeple		
West Burton Meadow	Off-site, adjacent north boundary.	An unimproved ridge and furrow grassland with an excellent species content.
Clarborough Tunnel	40m southwest	A fine example of species-rich calcareous grassland and scrub developed around the tunnel top and cuttings on an active

Site Name and	Distance	Feature(s) of interest
Designation	from Site	
		railway line - a site of botanical and zoological interest.
Maumhill Wood	130m west	A broadleaved woodland on Mercia Mudstone clays with a notable ground flora.
Burton Round Ditch	160m northeast	A drain of interest for water beetles.
Caddow Wood (Northern Assart)	280m south	A neglected coppice wood of considerable floristic interest.
West Burton Power Station	345m northeast	An area of mature habitats within the power station of biological interest.
Caddow Wood (Southern Assarts)	430m south	A discontinuous and open old woodland of some botanical interest.
Muspitt Lane	435m northwest	Narrow strip of roadside verge and ditch bank with several notable species.
North Leys Road (ditch), Coates	470m south	A drain of interest for water beetles.
Retford Gate Green Lane	535m south	Unimproved neutral grassland with noteworthy herbs and communities along a Green Lane.
West Burton Reedbed	590m northeast	An extensive reedbed and associated carr woodland of botanical and note.
Clarborough Gypsum Pits	605m west	An area of calcicolous scrub and grassland developed on the site of a disused gypsum quarry.
Whinleys Road Woodland	630m southwest	A noteworthy woodland
		A belt of unmanaged woodland with a dense understorey.

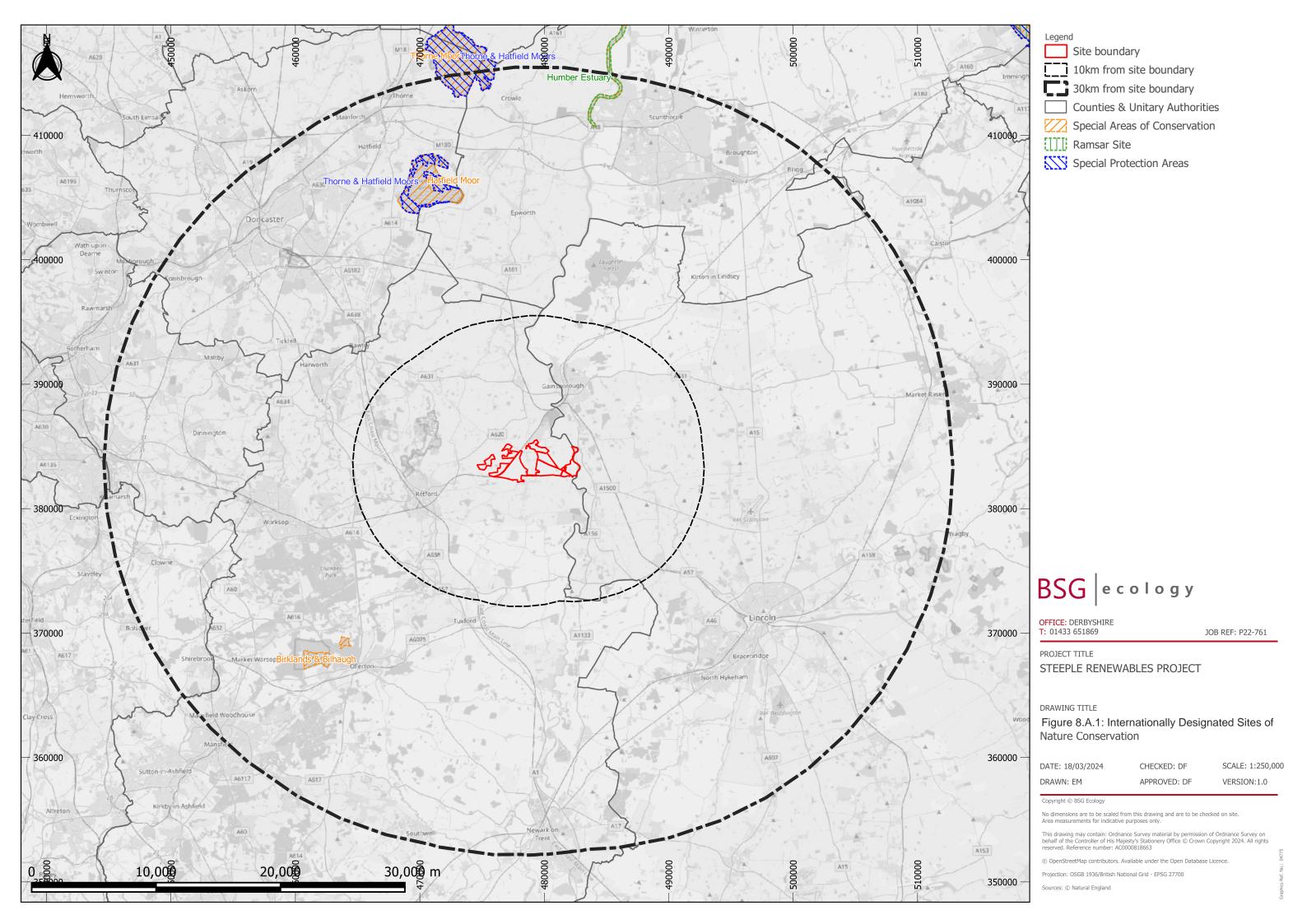
Site Name and	Distance	Feature(s) of interest
Designation	from Site	
North Wheatley	955m	A stream of interest for water beetles.
Beck	northwest	
Coates Wetland	1km southeast	A group of pools with rough grazing land and a section of the River Trent, providing an area of zoological and botanical interest.
Cowsland Stripe	1.2km southwest	Roadside strip of woodland with a notable flora.
Bole Ings	1.3km north	An old Trent oxbow with a good diversity of semi-natural habitat types - of botanical and zoological interest.
Hangingside and	1.5km west	Trackside verges that are rich in herbs.
Hollinhill Lanes		
Bole Ings Drains	1.6km north	Drains with a notable aquatic flora and of interest for water beetles
Broad Lane Grassland, North Leverton	1.6km south	A neutral grassland cut for hay.
Cow Pasture Lane Drains	1.8km south	Drains with notable aquatic and bankside vegetation.
Chesterfield Canal	1.9km west	A representative stretch of canal
(Welham to Misterton)		supporting a nationally notable aquatic plant community characteristic of
		brackish waters, and a rich invertebrate.
Lincolnshire LWS an	d Ancient woo	dlands
Burton Wood ASNW and PAWS	1.3km east	The woodland listed on Natural England's Ancient Woodland Inventory datasets.

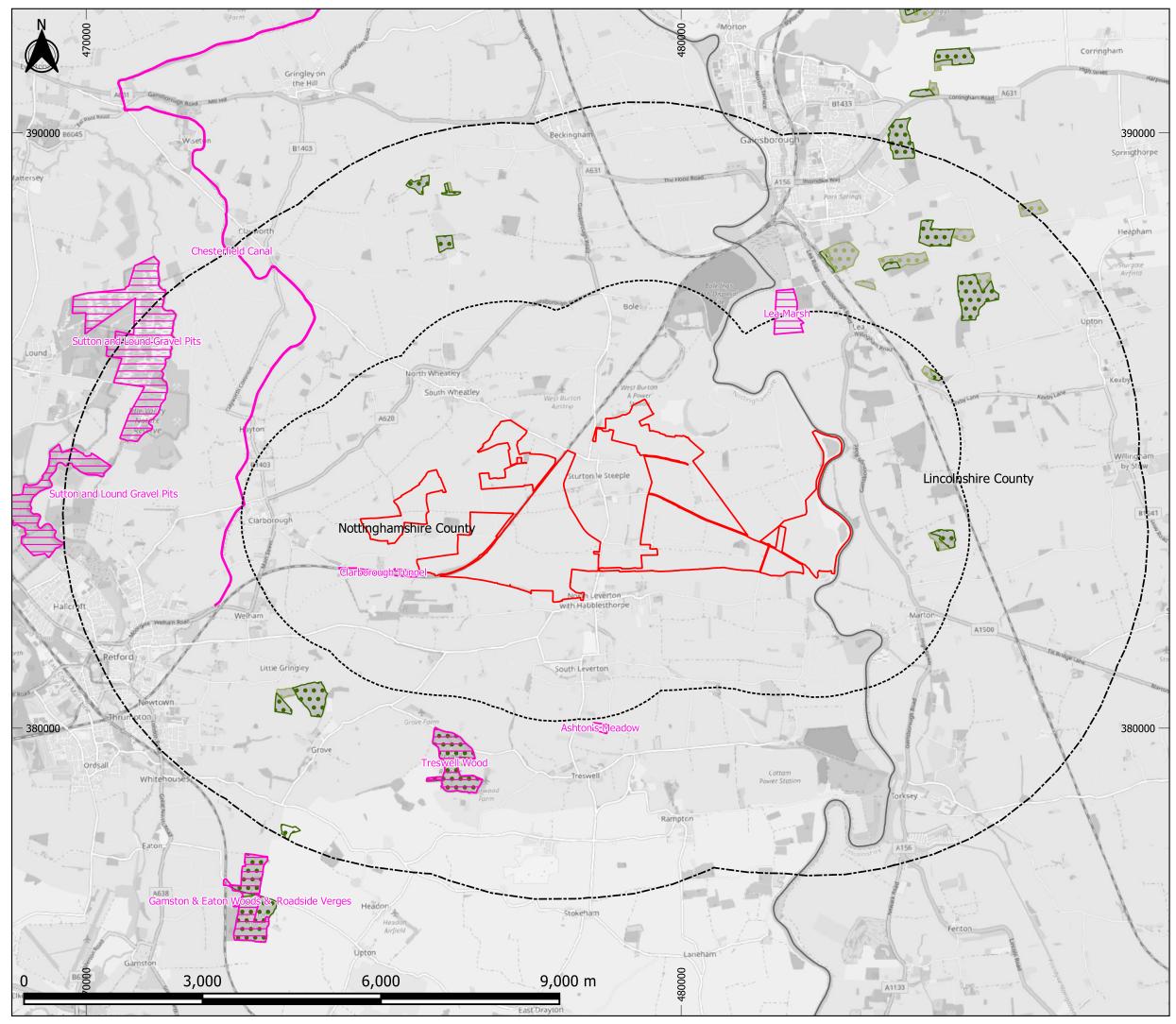
Site Name and Designation	Distance from Site	Feature(s) of interest
Trent Port Wetland LWS	1.5km southeast	Selected for its mosaic of botanically rich damp grassland/marsh/fen, and standing water/pond.
Lea Medow LWS	1.5km north	Selected for meeting the criteria for neutral grassland and a mosaic of at least two other habitats.
Track to Lea Marshes LWS	1.6km north	Selected for meeting the criteria for neutral grassland and a for its self- sustaining population of subterranean clover Trifolium subterraneum.
Knaith Park Wood LWS, ASNW and PAWS	1.8km northeast	Selected for its ancient semi-natural woodland, and plantations on ancient woodland sites, and wet woodland. The woodland listed on Natural England's Ancient Woodland Inventory datasets.

1.3 **References**

CIEEM (2018). 'Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine version 1.2'. Chartered Institute of Ecology and Environmental Management, Winchester. Defra (2024a) MAGIC Interactive Map [online] Available at: https://magic.defra.gov.uk/MagicMap.aspx

1.4 Figures





Site boundary

2km from site boundary

5km from site boundary

Counties & Unitary Authorities

Sites of Special Scientific Interest

••• Ancient Semi-Natural Woodland

Plantation on Ancient Woodland Site

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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.A.2: Nationally Designated Sites of Nature Conservation

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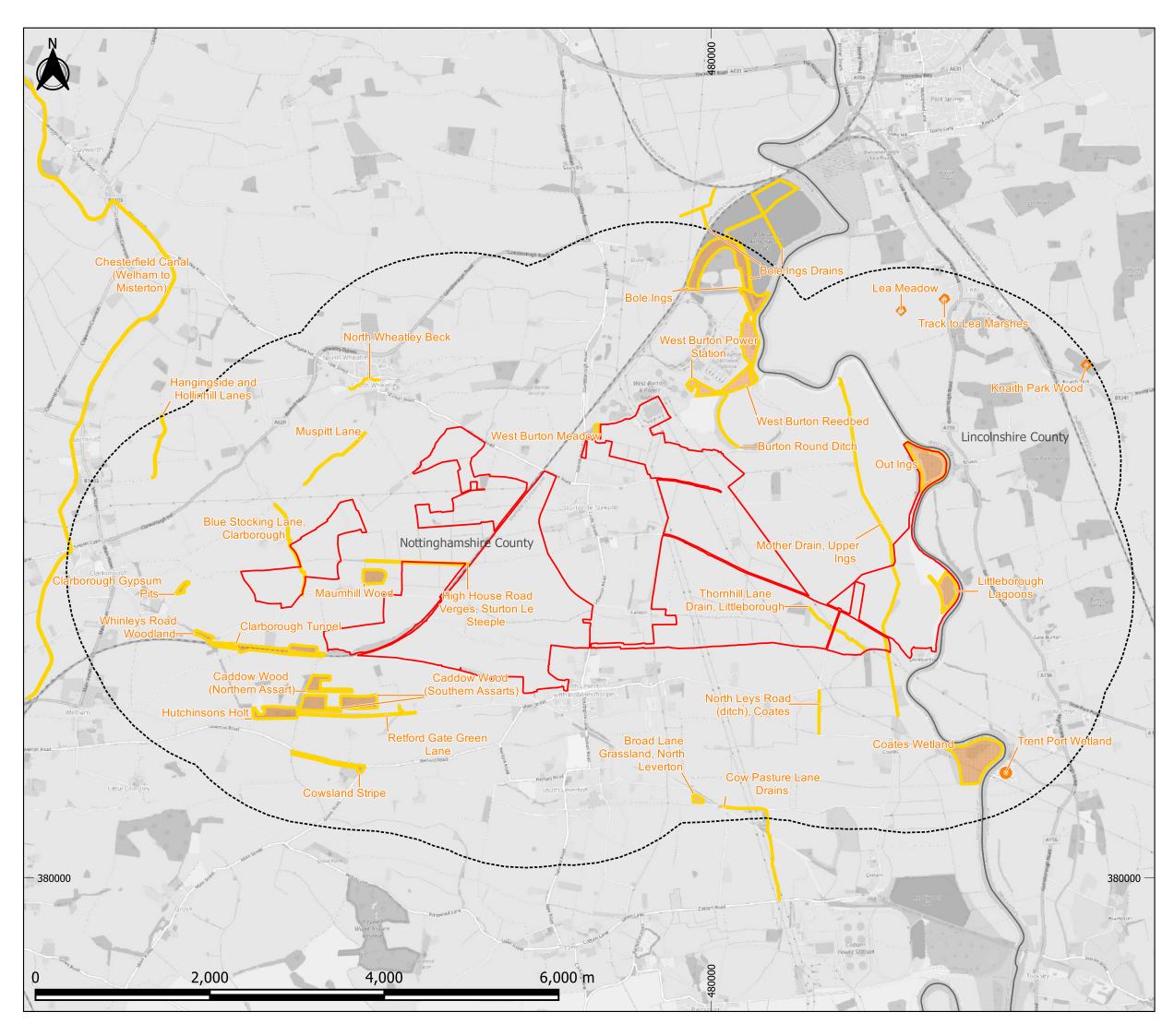
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Site boundary

2km from site boundary

Counties & Unitary Authorities

Indicative location of locally designated non-statutory site (LWS provided by LERC) Location of locally designated non-statutory site (SINC provided by NBGRC)

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DRAWING TITLE

Conservation

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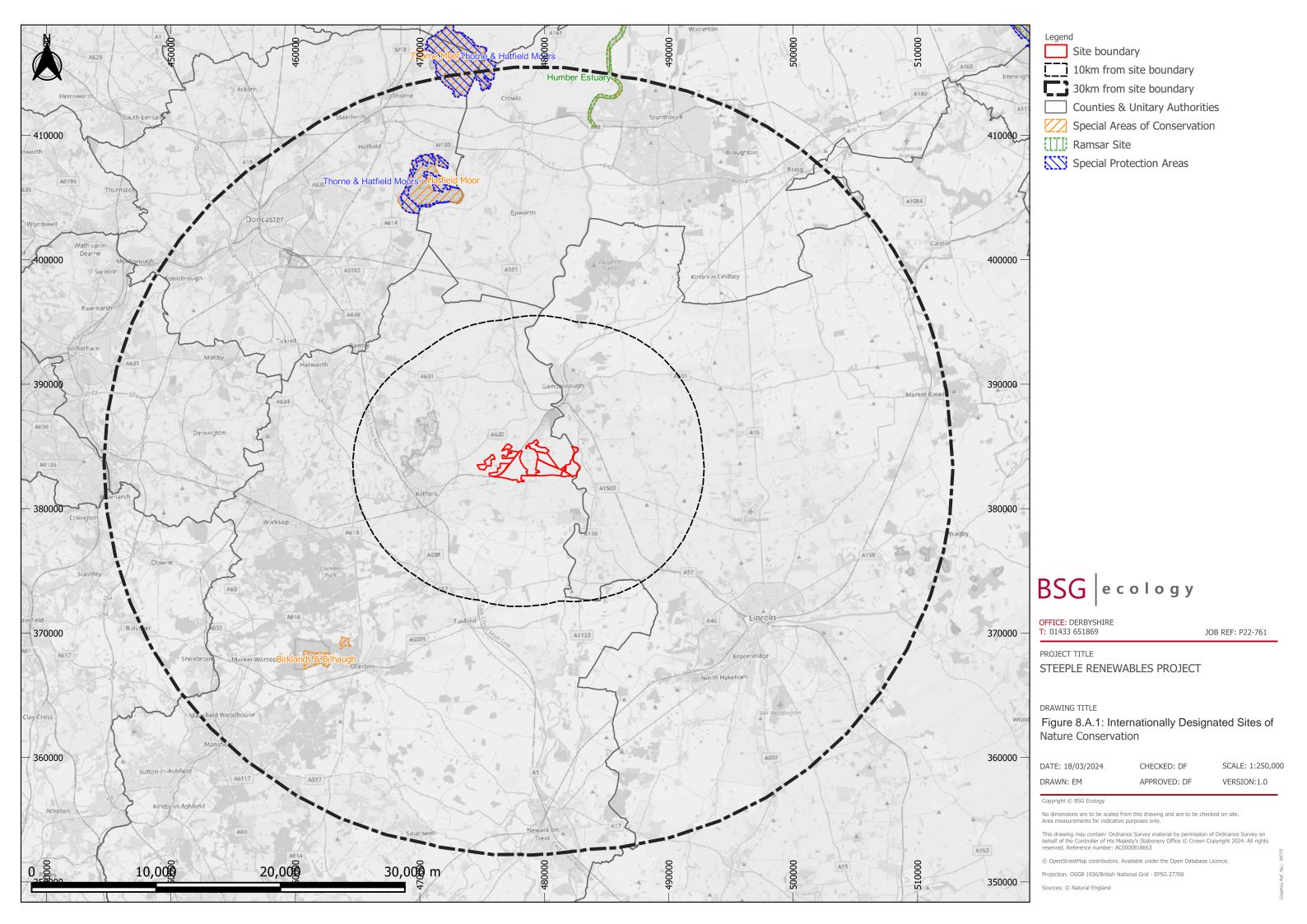
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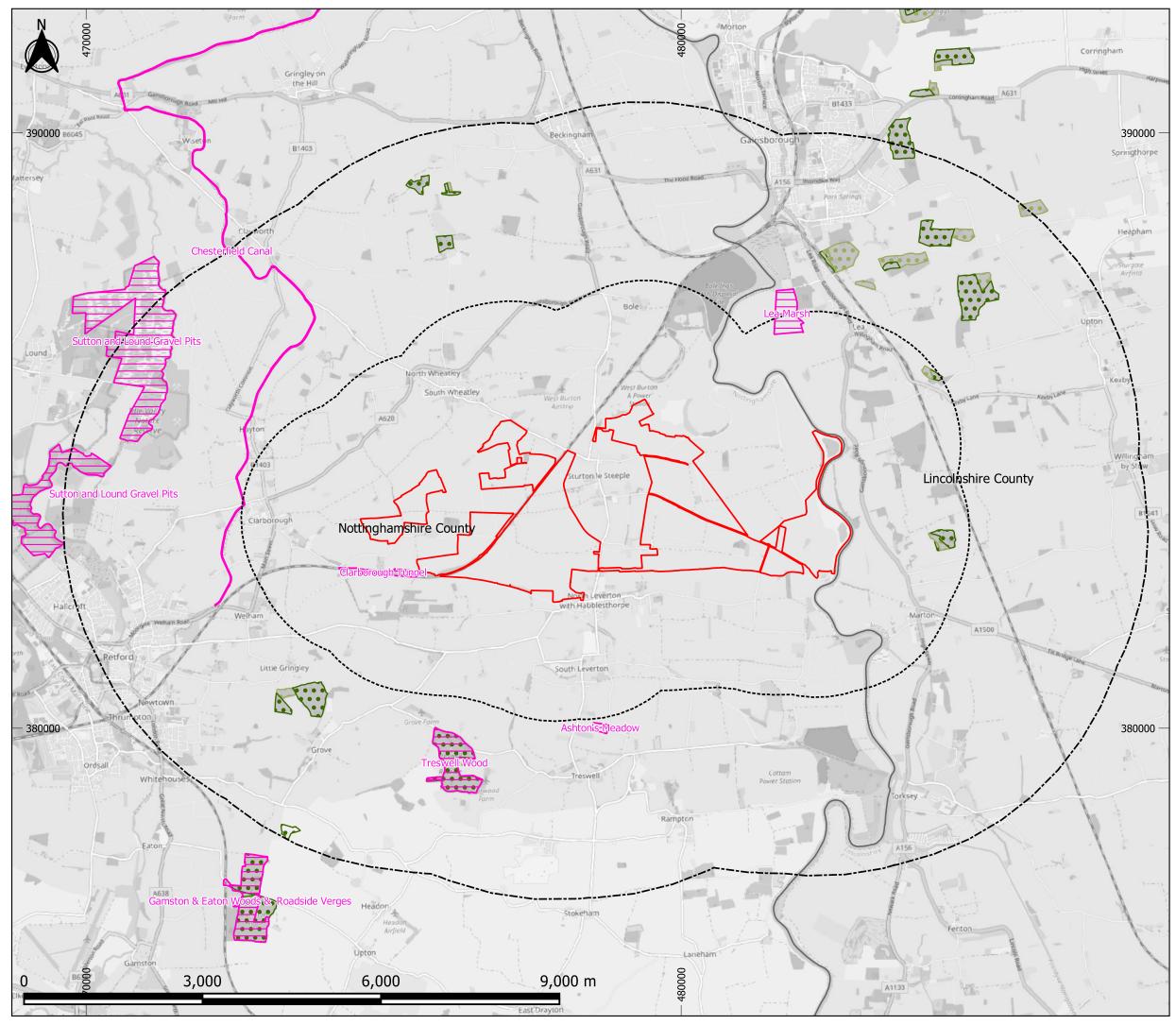
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Site boundary

2km from site boundary

5km from site boundary

Counties & Unitary Authorities

Sites of Special Scientific Interest

••• Ancient Semi-Natural Woodland

Plantation on Ancient Woodland Site

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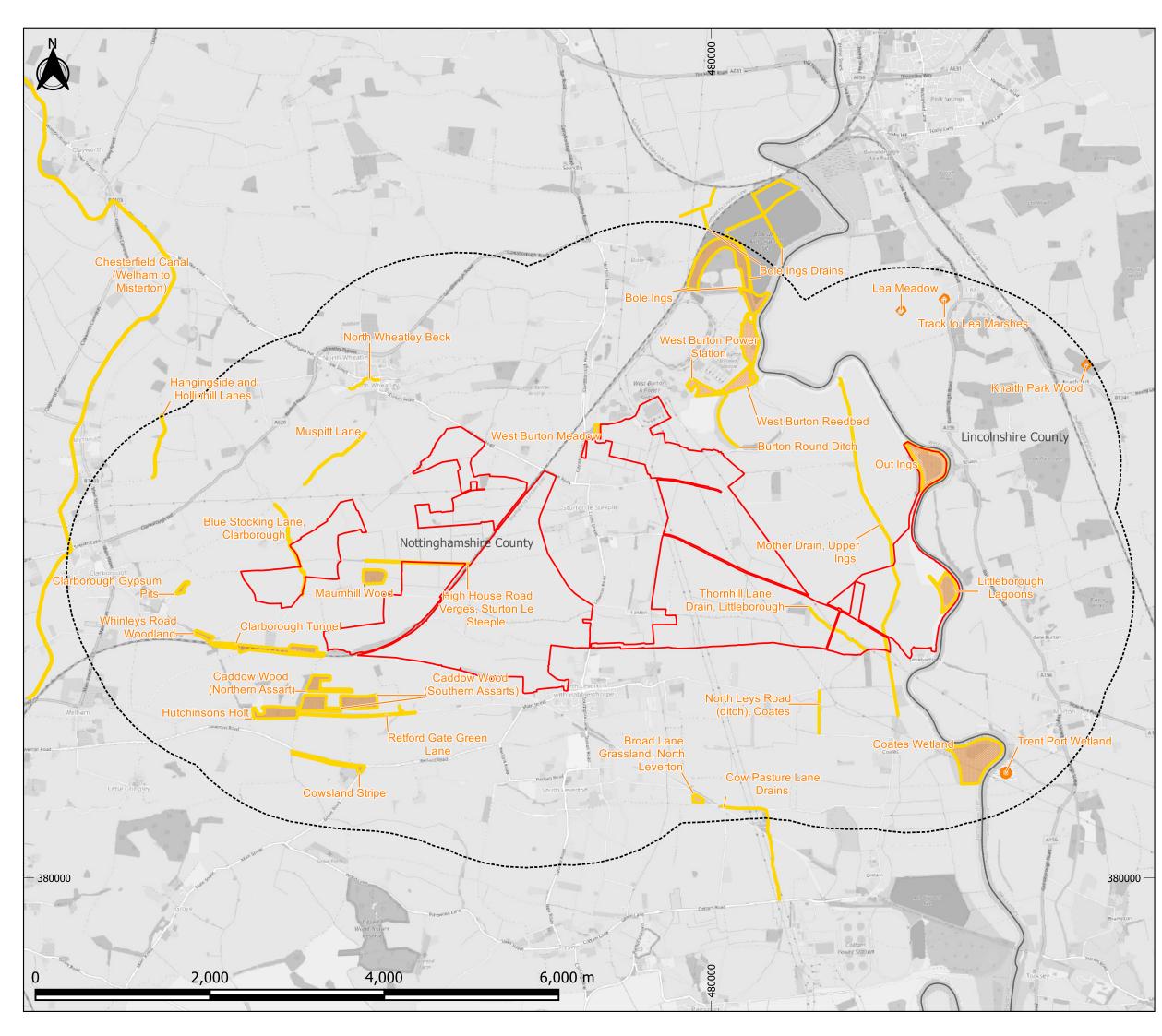
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Site boundary

2km from site boundary Counties & Unitary Authorities

Indicative location of locally designated non-statutory site (LWS provided by LERC) Location of locally designated non-statutory site (SINC provided by NBGRC)

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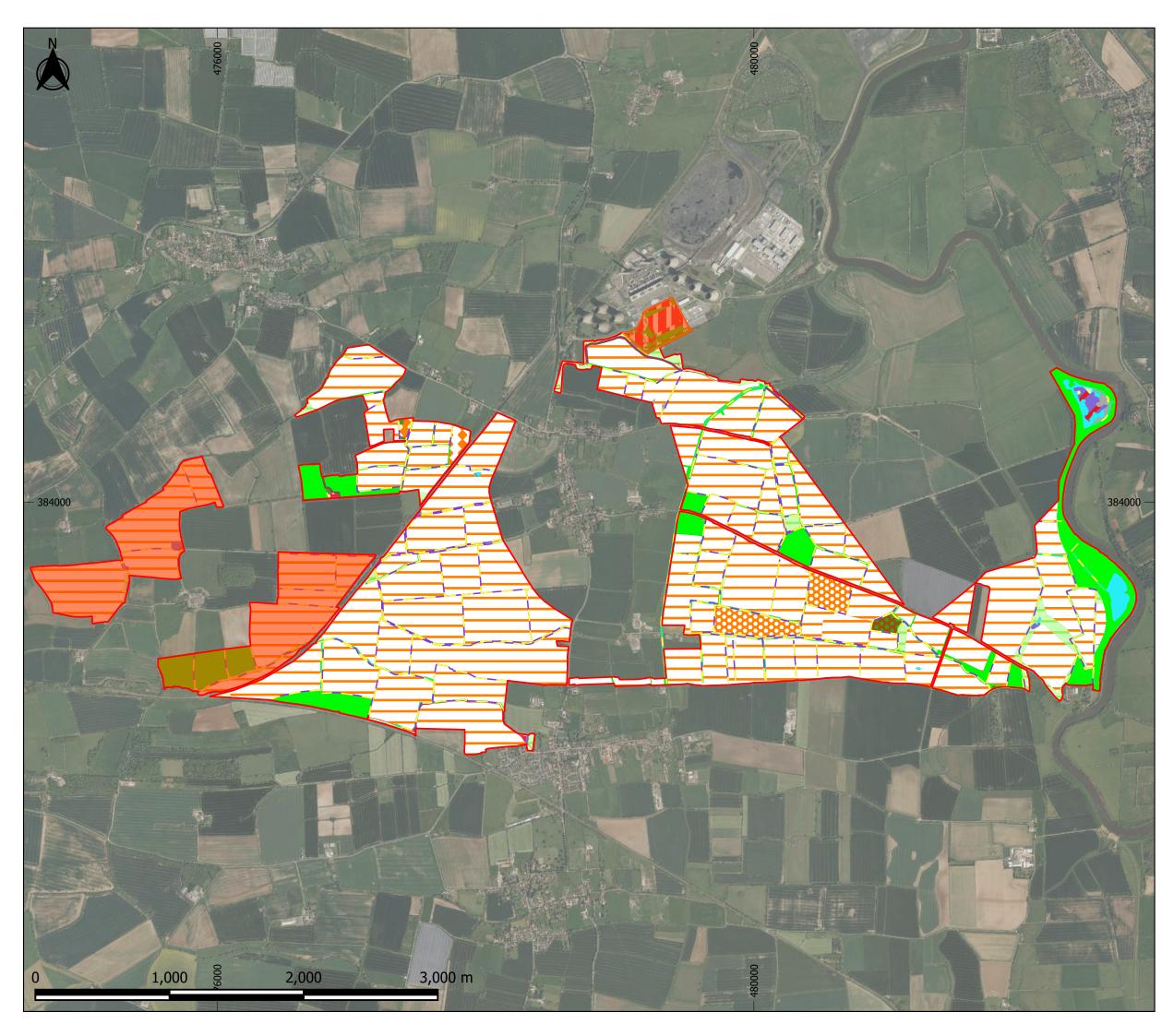
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eyen	u
-	Native Hedgerow
	Built linear features
_	Ditches
	Ruderal/Ephemeral
22	Traditional orchards
	Vacant/derelict land/ bareground
	Cereal crops
88	Non-cereal crops
₹¥	Horticulture
	Reedbeds
	Other neutral grassland
	Modified grassland
	Scrub
	Ponds
\bigotimes	Temporary lakes, ponds and pools
	Developed land; sealed surface
	Artificial unvegetated, unsealed surface
	Other woodland; broadleaved
	Other woodland; mixed
	Site boundary
	No Access - Mapped from PRoW and aerial photography

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PROJECT TITLE STEEPLE RENEWABLES PROJECT

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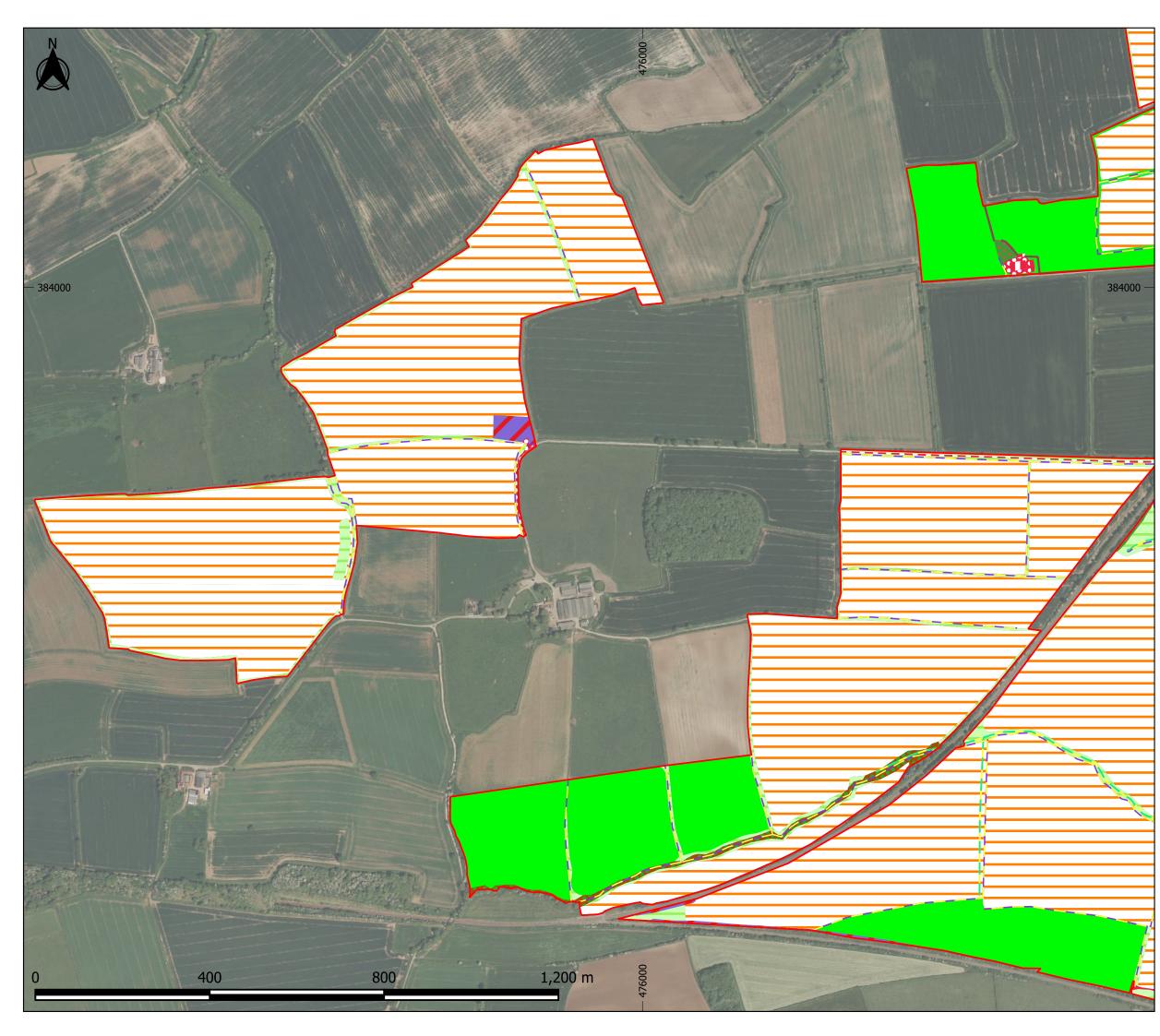
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Built linear features

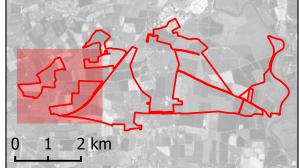
Ditches

Vacant/derelict land/ bareground

Cereal crops

Other neutral grassland

- Modified grassland
- Developed land; sealed surface
- Artificial unvegetated, unsealed surface
- Other woodland; broadleaved
- Other woodland; mixed
- Site boundary



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PROJECT TITLE
STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.B.1: Existing Habitat Plan

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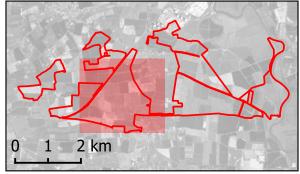
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_egen	d
	Built linear features
	Ditches
	Vacant/derelict land/ bareground
	Cereal crops
T	Horticulture
	Other neutral grassland
	Modified grassland
\bigotimes	Temporary lakes, ponds and pools
	Developed land; sealed surface
88	Artificial unvegetated, unsealed surface
	Other woodland; broadleaved
	Other woodland; mixed
	Site boundary



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DRAWING TITLE Figure 8.B.2: Existing Habitat Plan

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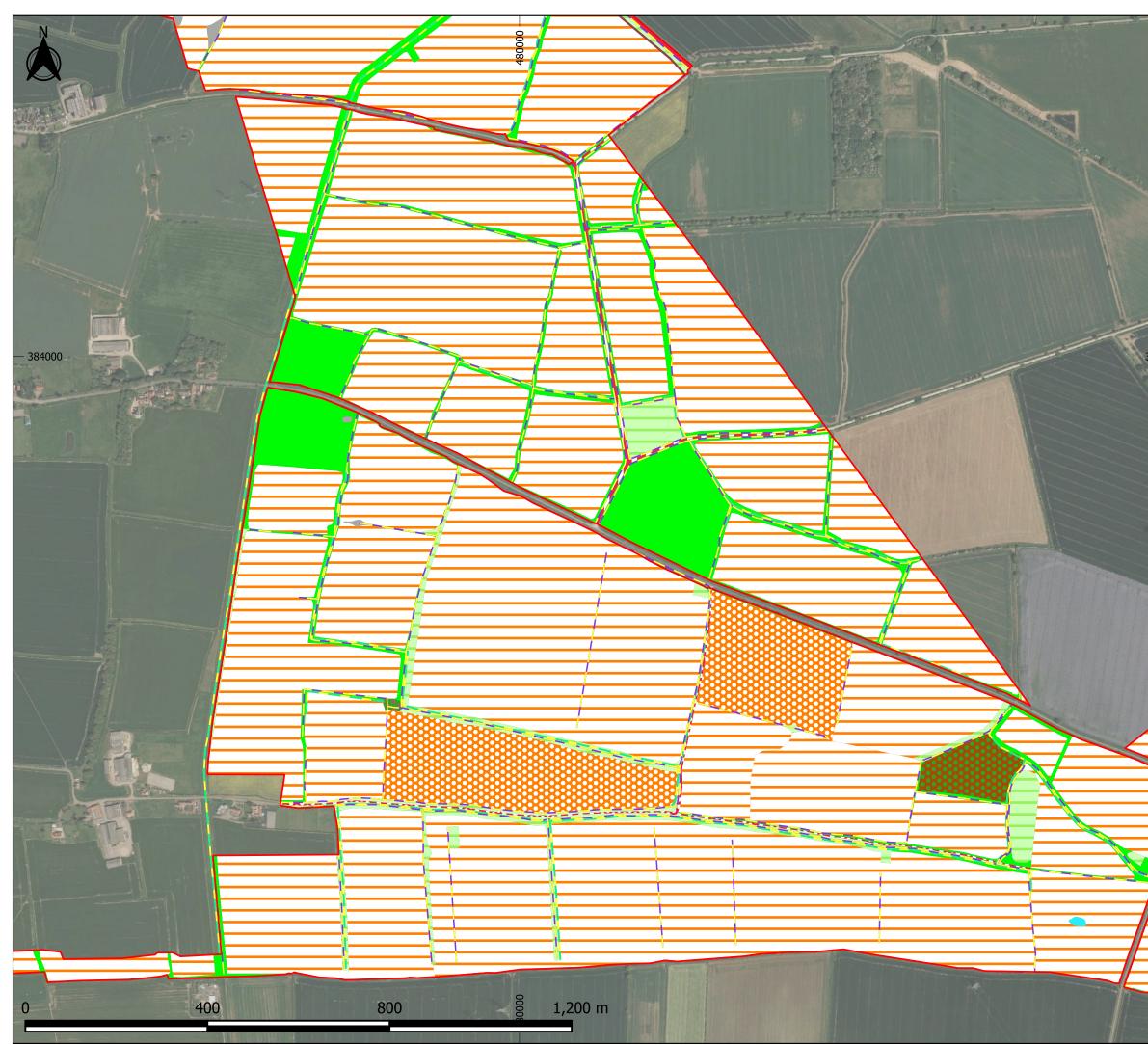
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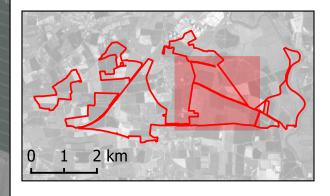
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Legen	d
-	Native Hedgerow
	Built linear features
_	Ditches
	Ruderal/Ephemeral
	Vacant/derelict land/ bareground
	Cereal crops
288	Non-cereal crops
	Other neutral grassland
	Modified grassland
	Developed land; sealed surface
288	Artificial unvegetated, unsealed surface
	Other woodland; broadleaved
	Other woodland; mixed
	Site boundary

384000 -



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DRAWING TITLE Figure 8.B.3: Existing Habitat Plan

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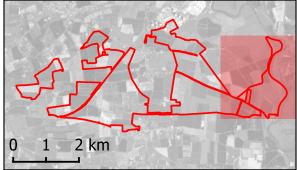
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- Ditches
- Ruderal/Ephemeral
- Vacant/derelict land/ bareground
- Cereal crops
- Reedbeds
- ----- Other neutral grassland
- Modified grassland
- Scrub
- Ponds
- Artificial unvegetated, unsealed surface
- Other woodland; mixed
- Site boundary



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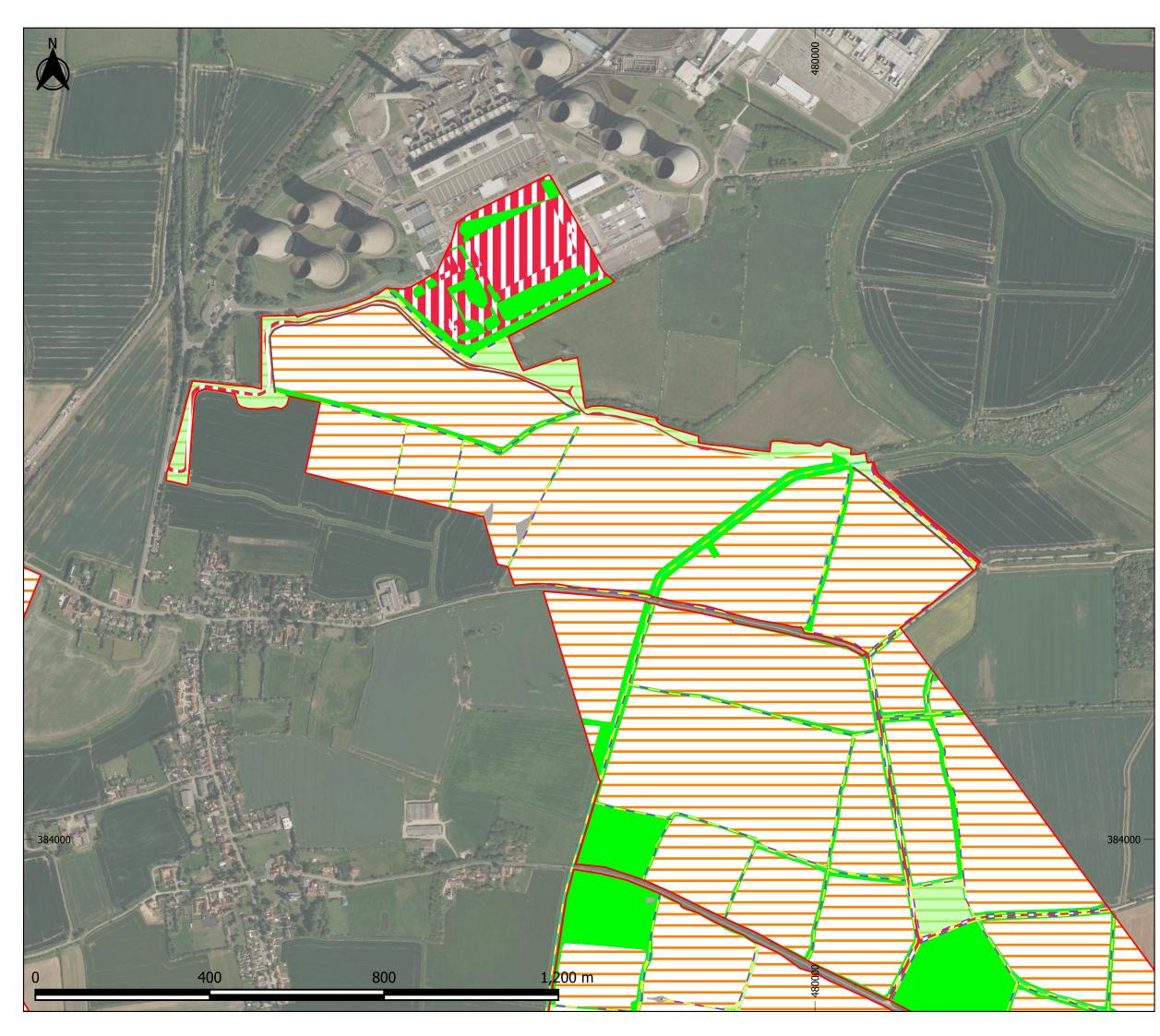
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Native Hedgerow

Built linear features

Ditches

Ruderal/Ephemeral

Vacant/derelict land/ bareground

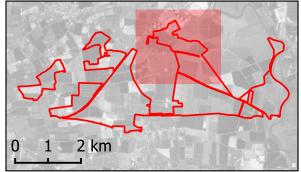
Cereal crops

----- Other neutral grassland

Modified grassland

Developed land; sealed surface

Site boundary



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DRAWING TITLE Figure 8.B.5: Existing Habitat Plan

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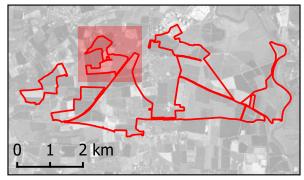
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	Built linear features
	Ditches
11	Traditional orchards
	Cereal crops
₩	Horticulture
	Other neutral grassland
	Modified grassland
\bigotimes	Temporary lakes, ponds and pools
	Developed land; sealed surface
X 88	Artificial unvegetated, unsealed surface
	Other woodland; broadleaved
	Site boundary



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DRAWING TITLE Figure 8.B.6: Existing Habitat Plan

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Environmental Impact Assessment Scoping Report Appendix 8B: Habitat Survey

Land at Sturton-le-Steeple, Nottinghamshire

Prepared by: BSG Ecology



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Scoping Request Steeple Renewables Project

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Figures

Figure 8.B. Existing Habitat Plan (formed of 7 sheets)

1. Appendix 8B: Habitat Survey

1.1 Methodology

Desk study

- 1.1.1 The MAGIC.gov website (Defra, 2024) was accessed on 18 March 2024 to identify areas listed on the priority habitat inventory. In addition, the desk study included a review of freely available on-line aerial photographs and maps (Bing Maps 1:25,000).
- 1.1.2 Habitats have been provisionally mapped via desk study, including use of aerial imagery from 2021 (Bing, 2024), and ground-truthed via field surveys (refer to field survey methodology below).

Field survey

- 1.1.3 The field surveys were undertaken by ecologists Daniel Foster MCIEEM, Emily McVean ACIEEM and Emma Bruce ACIEEM throughout January to March 2024. The Site was walked over to identify and map preliminary habitat types or features and list dominant and notable plant species present. Detailed botanical survey was not undertaken, and will be programmed for the 2024 botanical survey season to verify the preliminary findings.
- 1.1.4 The habitat survey was undertaken with reference to UK Habitat Classification system (UK Habitat Classification Working Group, 2023) and adapted to include habitat classes used for biodiversity assessments (as defined in DEFRA, 2024). The habitats mapped are shown on **Figures 8.B.1 to 8.B.6**.
- 1.1.5 The survey was 'extended' to assess the suitability of habitats present to support protected species. Checks made for signs and evidence of protected species throughout the Site. Searches were made for evidence of badger *Meles meles* (such as setts, feeding remains, dung pits, hairs and tracks). The Site was also assessed for its potential to support reptiles and amphibians, and to identify potential habitats for breeding birds or roosting bats.
- 1.1.6The Site was also searched for signs of invasive non-native plants such as Japanese
knotweed Fallopia japonica and Himalayan balsam Impatiens glandulifera.

Consideration of potential limitations to survey

1.1.7 The survey was undertaken outside the optimal botanical survey season (typically considered to be May to September). The survey work is considered to be adequate to inform the scoping process as it is possible to broadly identify habitat types, and

their suitability for protected species. Further survey will be undertaken during the optimal season in 2024 to verify the habitat classifications, assess the condition of the habitats (for the BNG assessment), and verify the presence of invasive non-native plants. Therefore, the timing of the extended habitat survey is not considered to be a significant constraint.

1.1.8 Three areas of the Site have not been surveyed on the ground at this point as full access has not been provided. These are shown on **Figure 8.B** and comprise areas of farmland in the southwest of the Site and areas of buildings and associated infrastructure associated with West Burton Power Station in the north. Habitat mapping at this stage has been undertaken from public rights of way and using aerial photographs which has allowed an initial assessment of these areas to be undertaken for scoping purposes. Full access will be sought and further habitat survey work undertaken, and therefore this limitation is not considered to be significant.

1.2 **Results**

Ancient woodland and Priority habitats

- 1.2.1 There is no registered ancient semi-natural woodland (ASNW), planted ancient woodland sites (PAWS); or ancient wood pasture within the Site (inferred from Natural England, 2023).
- 1.2.2 A review of the MAGIC.gov website (Defra, 2024) shows that several priority habitats may be present within the Site including:
 - Traditional orchard one area of traditional orchard is listed as within the Site boundary and its presence has been verified via the field survey.
 - Deciduous woodland two areas are listed as falling within the Site boundary one of these has been verified as present, whereas the other falls within an area that was identified as willow scrub that forms part of a wetland floodplain mosaic.
 - Coastal and floodplain grazing marsh (CFGM) three areas are listed as falling within the Site boundary. These are not considered to be accurate and were found to be cropland / arable fields at the time of the habitat walkover (January 2024).

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- 1.2.3 In addition, the following priority habitats were assessed to be present during the habitat walkover, but are not listed yet in Natural England Priority Habitat Inventory (Natural England, 2024) include:
 - Hedgerows the majority of hedgerows identified in the Site are considered to meet the criteria for priority habitat, as set out in the priority habitat definitions (Maddock et al., 2011).
 - Coastal and floodplain grazing marsh (CFGM) is adjacent to the River Trent

 further consideration is needed regarding the wetland species presence to
 confirm whether the habitat qualifies as a modified floodplain wetland
 mosaic, which is a subset of this priority habitat.
 - Reedbed a relatively small area (approximately 20m x 25m) of reedbed was observed within the wetland mosaic area, close to the River Trent.
- 1.2.4 Further survey information will also be collected to determine the qualification and extent of the following priority habitat types within the Site:
 - Ponds and standing waters further information is required to ascertain whether the ponds meet any priority habitat criteria, or whether larger bodies of standing water meet the definition of priority habitats (such as 'eutrophic standing waters').
 - Arable field margins further botanical survey is required to understand the status of the margins around cropland.

Potential irreplaceable habitats as defined by the NPPF

- 1.2.5Mature trees with some veteran features were observed within the Site boundary.These will be assessed further to confirm their status as irreplaceable habitat.
- 1.2.6 The type, extent and distribution of habitats within the Site were mapped during the habitat survey work and are shown on Figures 8.B. 1 to 8.B.6. Table 8B.1 present summaries of the habitats found at the Site.

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Habitat	Description	Relevant	Statutory
		ecological	Biodiversity
		legislation and	Metric
		policy	distinctiveness
			(and score)
Priority Ha	abitats		
Arable	The margins of the arable	S41 ¹ , NPPF ² ,	Medium (4)
Field	cropland include uncultivated	Environment Act	
Margins	strips of grassland of ca. 2 to 12 m	2021,	
	width. Margins are generally	Nottinghamshire	
	dominated by tussocky, coarse	LBAP	
	grasses. Further assessment of the		
	species composition and		
	management regime is needed to		
	consider whether grassland		
	confirm to the priority habitat		
	descriptions.		
Floodplai	An area in the east of the Site,	S41 NPPF,	High (6)
n wetland	adjacent to the River Trent (refer	Environment Act	
mosaic /	to Rivers below), was inundated	2021	
Coastal	with floodwater at in February		
and	2024. An artificial levee is within		
Floodplai	this part of the Site and it is		
n Grazing	anticipated that floodwater may		
Marsh	occasionally extend to this during		
Including	times of spate.		
reedbed	The area includes a mosaic of		
priority	open standing water, modified		
habitat	grassland used for sheep grazing,		
	willow scrub, reedbed, ditches,		

Table 8B.1: Summary of the habitats present at the Site

¹ Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006

² National Planning Policy Framework

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Habitat	Description	Relevant ecological legislation and	Statutory Biodiversity Metric
		policy	distinctiveness (and score)
	nature trees, and ruderal vegetation.		
Hedgero ws	Preliminary assessments indicate that approximately 88 km of hedgerows are within the Site and likely qualify as priority habitat. The following types of hedgerows have been observed: native hedgerow; native hedgerow associated with a ditch or bank; native hedgerows with trees; native hedgerows with trees associated with a ditch or bank; species-rich native hedgerow. Further assessment is needed to determine whether hedgerows qualify as 'important' under the Hedgerow Regulations 1997.	S41 NPPF, Environment Act 2021, Hedgerow Regulations 1997	Low to Very High (2-8)
Tradition al orchard	A parcel of traditional orchard is shown on the Habitat Inventory within the west of the Site and confirmed via field survey.	S41 NPPF, Environment Act 2021,	High (6)
Woodlan ds (priority and non- priority)	The following type of woodland are present within the Site and are considered priority woodland: wet woodland, lowland mixed deciduous woodland. The wet woodland is assumed to be present in the east of the Site (not accessed to date due to	S41, NPPF, Environment Act 2021, Nottinghamshire LBAP	Medium – High (4-6)

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Habitat	Description	Relevant ecological	Statutory Biodiversity
		legislation and	Metric
		policy	distinctiveness
			(and score)
	floodwater, requires further		
	assessment).		
	One parcel of lowland mixed		
	deciduous woodland is present in		
	the southeast of the Site ('Fenton		
	Gorse')		
	Woodland is generally formed of		
	copses, 'gorses', and shelter belts.		
	Shelter belt planting has been		
	classed as plantation woodland		
	(which is not considered to qualify		
	as not a priority habitat).		
	Woodlands are generally		
	surrounded by arable land and		
	have signs of being occasionally		
	flailed to prevent encroachment		
	into cropland.		
	No ancient woodland is in the Site		
	or within 1 km of the boundary.		
	The closest ancient woodland is		
	1.3km to the east of the Site		
	(Burton Wood) and no ancient		
	woodlands have direct habitat		
	connectivity to the Site.		
Ponds	Aerial imagery indicates that a	S41, NPPF,	Medium to High
and lakes	large waterbody (>35,000m² area)	Environment Act	(4-6)
(priority	is present in the east of the Site,	2021	
and non-	adjacent to the River Trent, and		
priority)	may get inundated with		
	floodwater periodically. The		

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Habitat	Description Waterbody requires further assessment to determine its habitat class with reference to priority habitat definitions. A series of approximately other smaller waterbodies are to be	Relevant ecological legislation and policy	Statutory Biodiversity Metric distinctiveness (and score)
Potential i	present within the boundary – further assessment is needed to determine whether the ponds qualify as priority habitat. rreplaceable habitats (as defined by	y NPPF)	
Veteran trees (to be confirme d)	A number of trees within hedgerows were identified as exhibiting veteran features (such as fungal growth, large cavities, deadwood, broken main stem) – these require further assessment with reference to arboricultural survey findings to confirm whether they are of veteran status and qualify as irreplaceable habitats.	NPPF, The Environment Act 2021	(excluded from biodiversity gain, bespoke measures required)
Other hab	itats The majority of the Site is formed of arable cropland (primarily winter stubble during the January-February 2024 walkovers). A small number of fields appeared to be sewn with a game cover mix	Nottinghamshire LBAP	Low (2)

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Habitat	Description	Relevant	Statutory
		ecological	Biodiversity
		legislation and	Metric
		policy	distinctiveness
			(and score)
	or similar (including mustard		
	species and sunflowers).		
Ditches	Ditches are present across the	Nottinghamshire	Low – Medium
and	Site. Preliminary assessments	LBAP	(2-4)
culverts	indicate that almost 13 km of wet		
	ditches are within the Site. It is		
	anticipated that some of these are		
	seasonally wet and are likely to		
	dry over summer.		
	Ditches are generally steep-sided		
	(ca. 45-70 ⁰ V-cut banks), with		
	water depths of less than 1m.		
	A proportion of the ditches		
	comprise large field drains with		
	widths of water observed at 2m,		
	but may increase during spate.		
	The ditches enter culvert across		
	the Site, generally to facilitate		
	roads and farm tracks.		
Rivers	The River Trent is 1-10m from the	Nottinghamshire	High
(offsite)	Site and therefore the river's	LBAP	
	supporting riparian habitat is		
	considered to partly intersect the		
	Site.		
	The River is known to flood the		
	eastern edge of the Site.		
Grassland	Pockets of pasture and	N/A for lower	Low – High (2-6)
S	uncultivated ground are present	distinctiveness	
	within the Site. These were	grassland (species	
	considered to primarily comprise	poor).	

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Habitat	Description	Relevant ecological legislation and policy	Statutory Biodiversity Metric distinctiveness (and score)
	modified grassland, with some partly serving a function as farm tracks. Some parcels had higher species diversity and were characteristic of other neutral grassland. Further survey is required to confirm floral diversity. It is anticipated that higher diversity grassland may be present adjacent to the River Trent – further assessment is needed to classify this grassland (and whether it is a subcomponent of a wetland habitat).	Higher distinctiveness grassland (species rich) could be S41 and / or Nottinghamshire LBAP habitats	
Scrub	Pockets of scrub are present across the Site, generally in the corners of fields or adjacent to ditches. Scrub is generally formed of blackthorn, bramble, or a mixture woody native species.	N/A	Medium (6)
Urban habitats	The following urban habitats have been recorded on Site to date: Bare ground – such as recently re- profiled areas of ground within agricultural land Developed land; sealed surface – such as surfaced roads or	N/A	Very low – Low (0-2)

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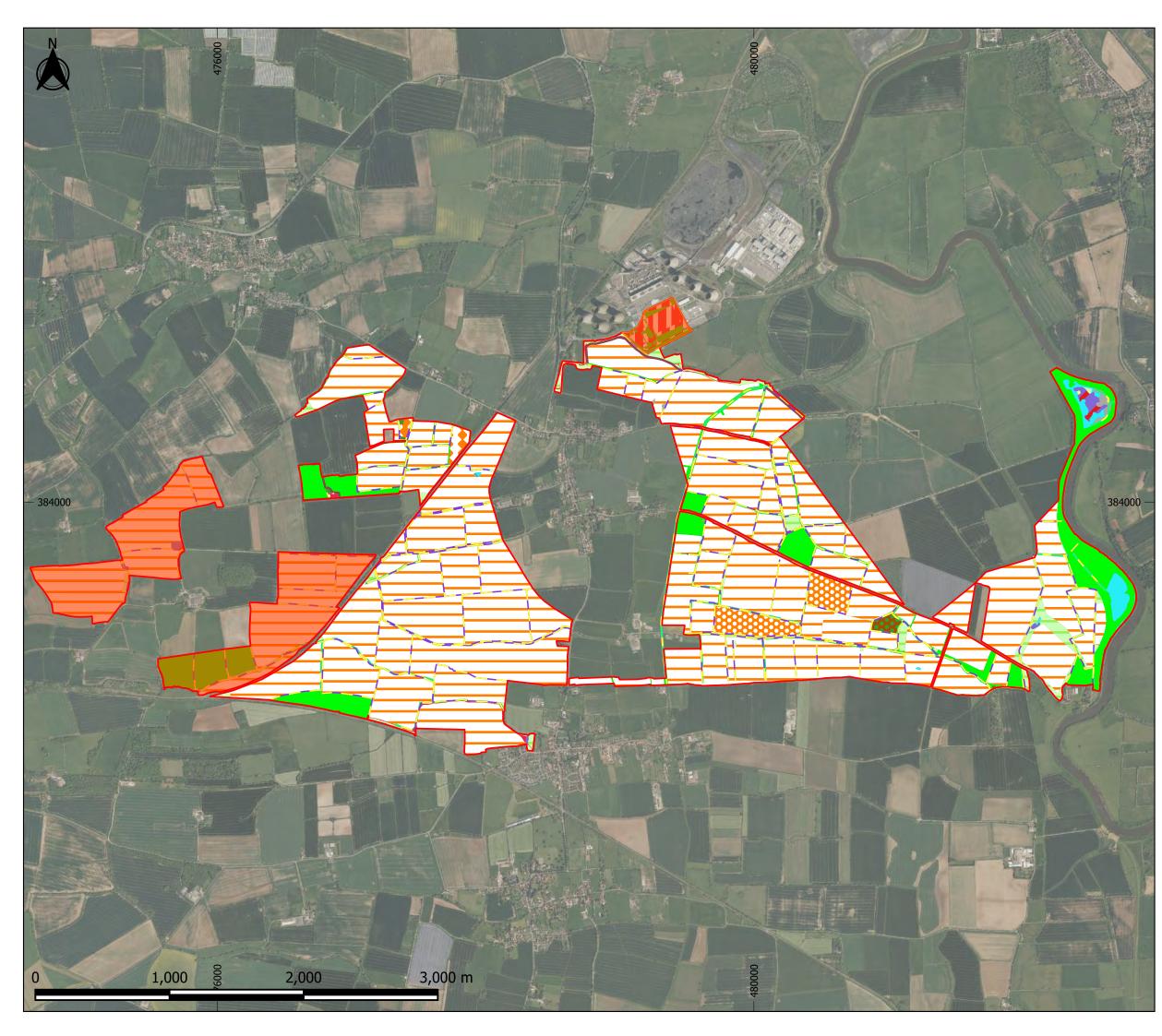
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Habitat	Description	Relevant ecological legislation and policy	Statutory Biodiversity Metric distinctiveness (and score)
	buildings. Four buildings have been recorded within the Site to date.		

1.3 **References**

Defra (2024) MAGIC Interactive Map [online] Available at: https://magic.defra.gov.uk/MagicMap.aspx Maddock, A. (ed.) (2011) 'UK Biodiversity Action Plan; Priority Habitat Descriptions'. Natural England (2014). 'Otters: surveys and mitigation for development projects.' Natural England and Department for Environment, Food & Rural Affairs, Worcester. Available at https://www.gov.uk/guidance/otters-protection-surveys-and-licences

1.4 **Figures**



egen	L
-	Native Hedgerow
	Built linear features
_	Ditches
	Ruderal/Ephemeral
22	Traditional orchards
	Vacant/derelict land/ bareground
	Cereal crops
88	Non-cereal crops
₹.	Horticulture
	Reedbeds
	Other neutral grassland
	Modified grassland
	Scrub
	Ponds
\bigotimes	Temporary lakes, ponds and pools
	Developed land; sealed surface
	Artificial unvegetated, unsealed surface
	Other woodland; broadleaved
	Other woodland; mixed
	Site boundary
	No Access - Mapped from PRoW and aerial photography

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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.B: Existing Habitat Plan

DATE: 26/03/2024	CHECKED: EM	SCALE: 1:26,000
DRAWN: CS	APPROVED: DF	VERSION:1.0

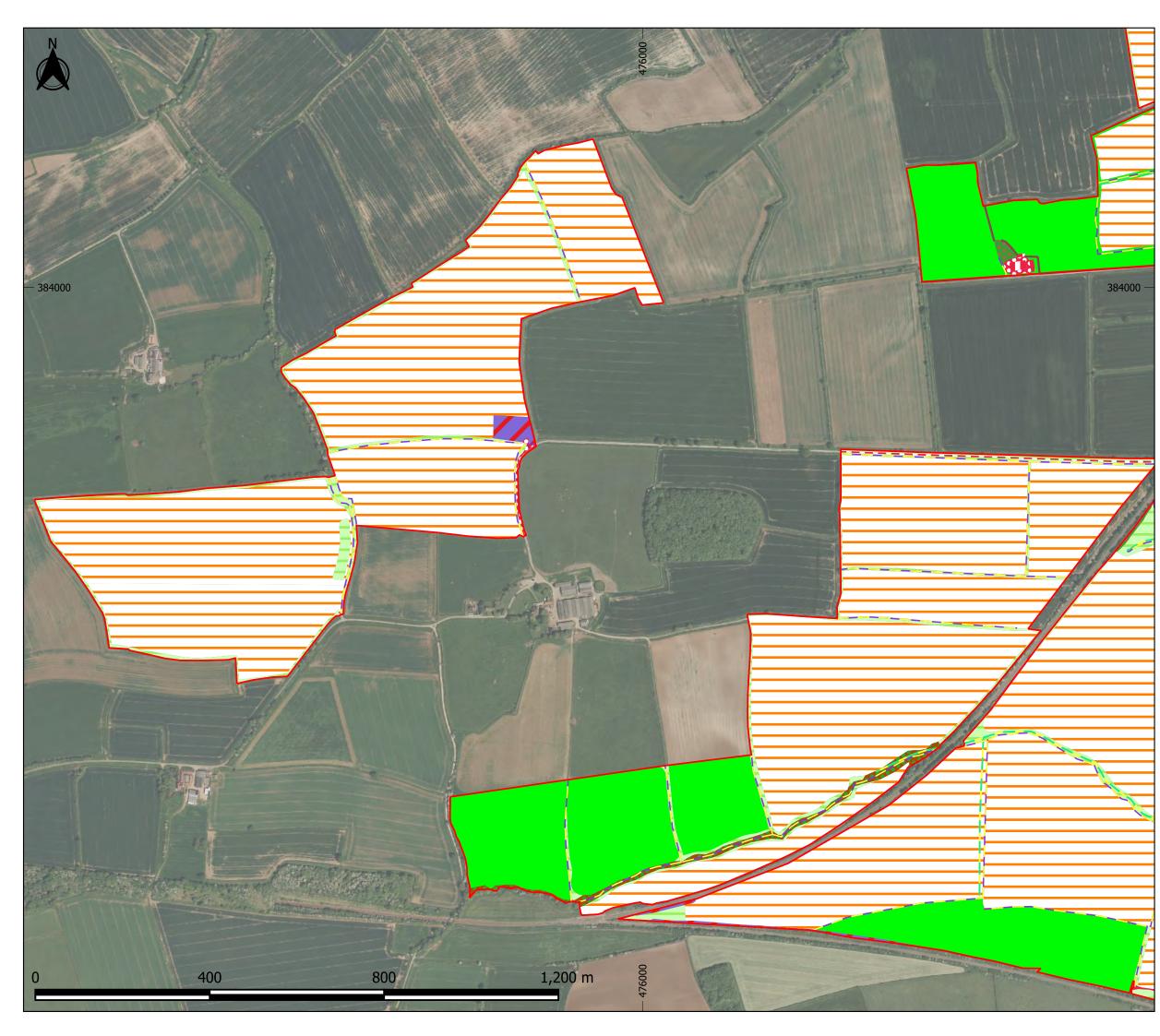
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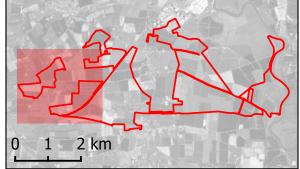
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- Built linear features
- Ditches
- Vacant/derelict land/ bareground
- Cereal crops
- Other neutral grassland
- Modified grassland
- Developed land; sealed surface
- Artificial unvegetated, unsealed surface
- Other woodland; broadleaved
- Other woodland; mixed
- Site boundary



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PROJECT TITLE
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DRAWING TITLE Figure 8.B.1: Existing Habitat Plan

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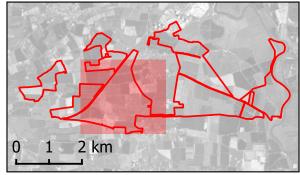
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Built linear features Ditches Vacant/derelict land/ bareground Cereal crops Horticulture Other neutral grassland Modified grassland Temporary lakes, ponds and pools Developed land; sealed surface Artificial unvegetated, unsealed surface Other woodland; broadleaved Other woodland; mixed Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.B.2: Existing Habitat Plan

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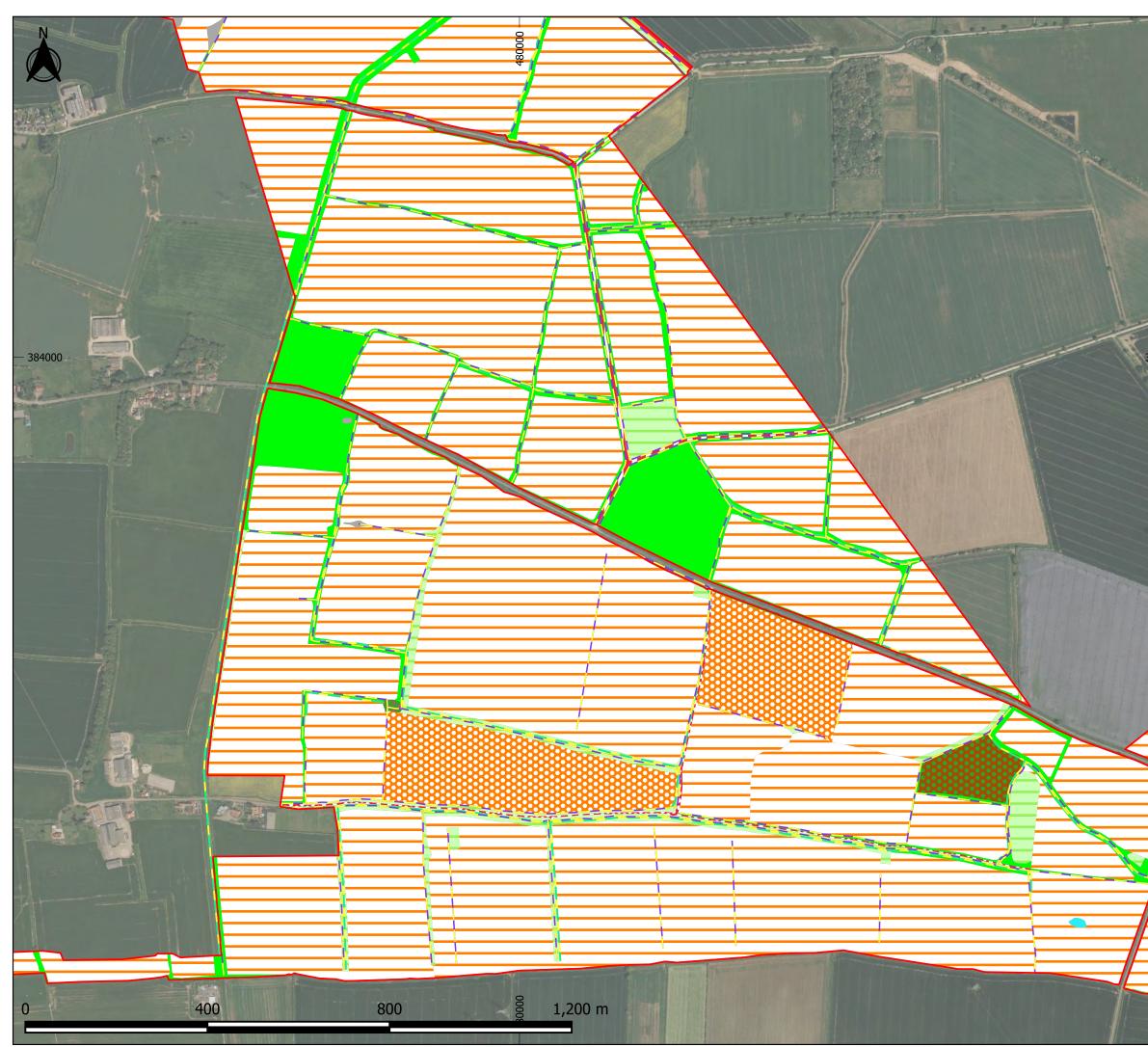
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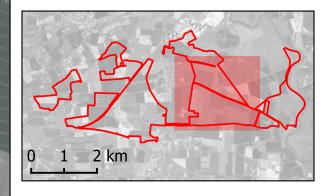
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Legen	d
-	Native Hedgerow
	Built linear features
	Ditches
	Ruderal/Ephemeral
	Vacant/derelict land/ bareground
	Cereal crops
188	Non-cereal crops
	Other neutral grassland
	Modified grassland
	Developed land; sealed surface
88	Artificial unvegetated, unsealed surface
	Other woodland; broadleaved
	Other woodland; mixed
	Site boundary

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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.B.3: Existing Habitat Plan

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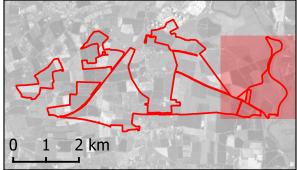
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- Ditches
- Ruderal/Ephemeral
- Vacant/derelict land/ bareground
- Cereal crops
- Reedbeds
- ----- Other neutral grassland
- Modified grassland
- Scrub
- Ponds
- Artificial unvegetated, unsealed surface
- Other woodland; mixed
- Site boundary



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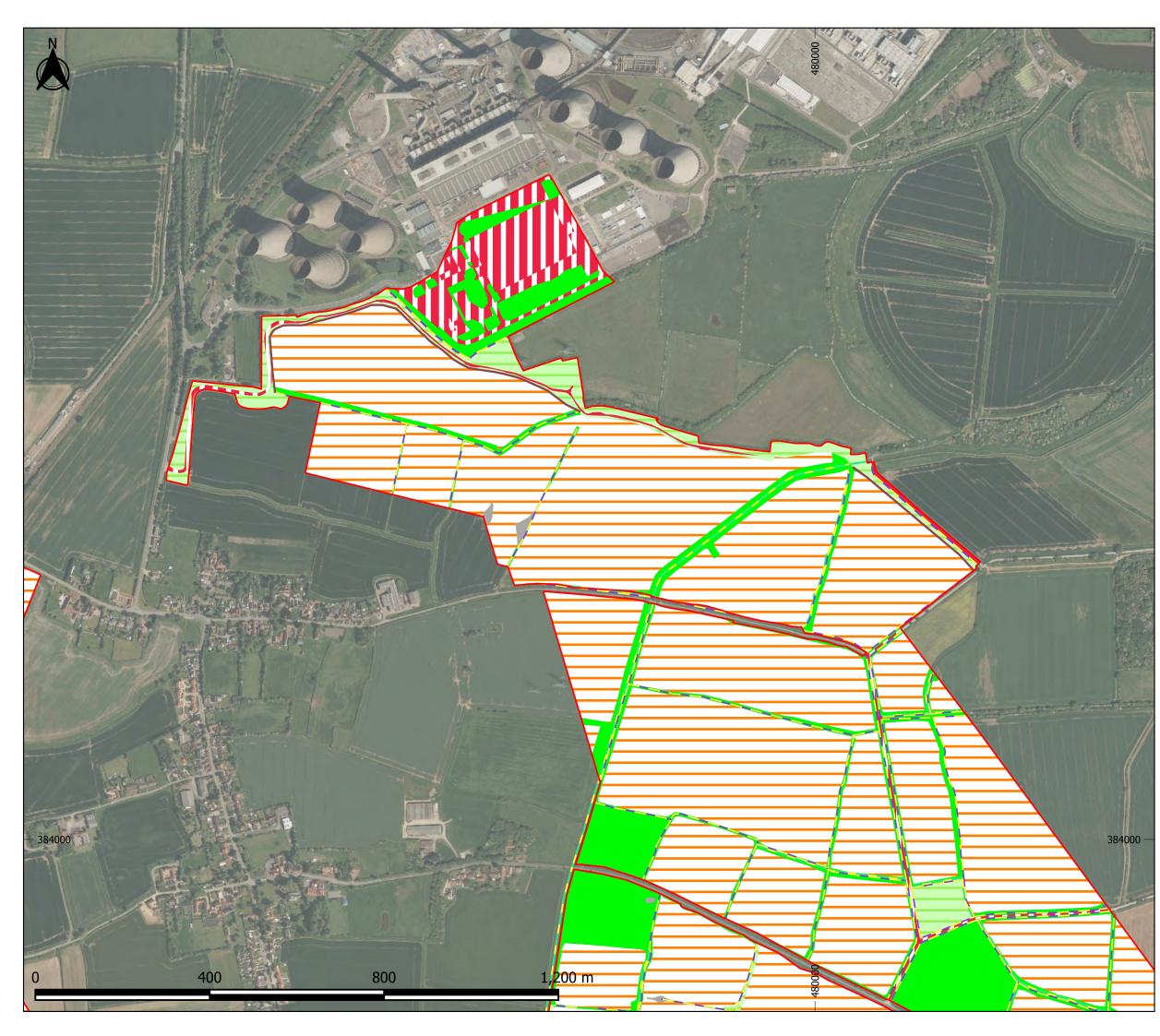
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Native Hedgerow

Built linear features

Ditches

Ruderal/Ephemeral

Vacant/derelict land/ bareground

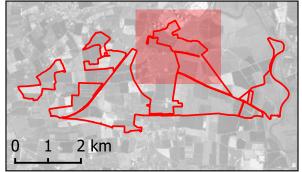
Cereal crops

----- Other neutral grassland

Modified grassland

Developed land; sealed surface

Site boundary



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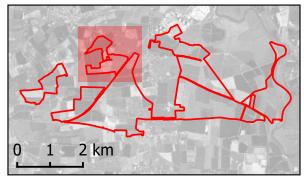
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	Built linear features
	Ditches
22	Traditional orchards
	Cereal crops
₩	Horticulture
	Other neutral grassland
	Modified grassland
\bigotimes	Temporary lakes, ponds and pools
	Developed land; sealed surface
388	Artificial unvegetated, unsealed surface
	Other woodland; broadleaved
	Site boundary



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Steeple Renewables Project

Environmental Impact Assessment Scoping Report Appendix 8C: Breeding Bird Characterisation Survey

Land at Sturton-le-Steeple, Nottinghamshire

Prepared by: BSG Ecology



Table of Contents

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	Appendix 8C: Breeding Bird Characterisation Survey	
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Сог	nsideration of potential limitations	3
Per	rsonnel	4
1.2	Results	4
1.3	References	8
1.4	Figures	9

Scoping Request Steeple Renewables Project

Figures

Figure 8.C.1 Survey area of the 2023 breeding bird characteristics survey Figure 8.C.2a-h Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

1. Appendix 8C: Breeding Bird Characterisation Survey

1.1 Methodology

- 1.1.1 Breeding bird characterisation surveys were undertaken between March and July 2023 within the survey area (as shown on Figure 8.C.1) being subject one morning visit per month, and one dusk / crepuscular survey in June 2023. Owing to the size of the survey area, each survey was split over three to five days, as presented in Table 8.C.1.
- 1.1.2 During each visit, the surveyor walked across the survey area scanning all habitats present (within the survey boundary and the immediate surrounding area) using binoculars as required. Frequent stops were made to listen and scan for singing, calling, and displaying birds. Birds observed beyond the boundary were also noted. Bird locations were mapped, and behaviour recorded using standard British Trust for Ornithology (BTO) codes and symbols.

Table 8.C.1: Dates of breeding bird characterisation survey visits and weatherconditions

Date	Cloud Cover (Oktas)	Precipitation	Wind (Beaufort)	Visibility
28.03.23	6	0	2	Excellent
29.03.23	6	0	2	Excellent
30.03.23	5	0	2	Excellent
21.04.23	8	Occasional showers	3	Excellent
22.04.23	5	Occasional showers	1	Excellent
23.04.23	6	Occasional showers	2	Excellent
20.05.23	2	0	1	Excellent
21.05.23	2	0	1	Excellent
22.05.23	5	0	1	Excellent
23.05.23	6	0	2	Excellent
19.06.23	4	0	2	Excellent
19.06.23 (evening)	4	0	1	Excellent

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Date	Cloud Cover (Oktas)	Precipitation	Wind (Beaufort)	Visibility
20.06.23	6	0	1	Excellent
21.06.23	5	0	2	Excellent
21.06.23 (evening)	5	0	2	Excellent
22.06.23	4	0	2	Excellent
23.06.23	4	0	1	Excellent
23.06.23 (evening)	5	0	2	Excellent
11.07.23	4	Occasional showers	2	Excellent
12.07.23	4	Occasional showers	2	Excellent
13.07.23	6	Occasional showers	2	Excellent

1.1.3 Birds exhibiting breeding behaviour will be assigned to one of two categories: likely breeding or confirmed breeding:

- Likely breeding: birds heard singing or alarm calling or simply present in suitable breeding habitat on one of the survey visits; a pair of birds present in suitable breeding habitat; a repeat observation of territorial behaviour (song or alarm calling) on two or more different visits in the same location; courtship behaviour or display in suitable breeding habitat; birds apparently visiting a nest site; or evidence of nest building (including excavation of a hole).
- Confirmed breeding: one or more adults undertaking a distraction display; the presence of a used nest or eggshells; the presence of recently fledged or downy young (that are clearly of local origin); apparently incubating adults or adults commuting to and from a nest hole; adult birds carrying faecal sacs or food for young; or, a nest with eggs or young present.
- 1.1.4 The conservation status of each species of bird is taken into account and with species present on the following lists a priority for recording bird territories:
 - The Wildlife and Countryside Act 1981 (as amended), Schedule 1.

- Species of Principal Importance (SPI) for the Conservation of Biodiversity in England as listed in accordance with section 41 of the Natural Environment and Rural Communities Act (NERC) 2006 (S41).
- Species of high and medium conservation concern ('red listed 'and amber listed species respectively) included in Birds of Conservation Concern 3 (Eaton et al., 2021).
- 1.1.5 For the purpose of this technical annex, analysis of breeding territories for skylark as been completed, based on the field data collected to date, in line with the methodology outlined above.
- 1.1.6 Draft findings for other species is provided below, which indicates the presence of a species during the breeding season only (i.e. only the confirmed presence of the species has been indicated, no analysis of the breeding status has been undertaken).

Consideration of potential limitations

- 1.1.7 Full access to the Site was not available during the breeding bird characterisation surveys, and this work was limited to surveying from public rights of way only. There is an extensive network of public rights of way across the Site which has allowed much of the Site to be accessed, although certain areas were not accessible. The Site is comprised of large, flat open arable fields which did allow for good visual observations to be made, particularly of species within the arable fields that are more detectable this way such as skylark. Whilst the 2023 breeding bird survey was constrained by the access restrictions, it has provided a useful baseline of the breeding bird assemblage at the Site.
- 1.1.8 Modifications to the Site boundary following the completion of the 2023 breeding bird surveys has resulted in the removal of certain surveyed areas, and the inclusion of areas that were not surveyed (refer to **Figure 8.C.1**). However, the main areas impacted by the Proposed Solar Areas have remained similar, and the main area that was not surveyed during 2023 is identified for biodiversity mitigation (Eastern Biodiversity Mitigation Area).
- 1.1.9 The breeding bird characterisation survey will be repeated in 2024 and will cover the entire Order Limits, and with full access permissions, and therefore these limitations are not considered to be significant.

Personnel

1.1.10 The breeding bird characterisation surveys were undertaken by Andrew Cockroft. Andrew is an experienced ornithological surveyor who regularly undertakes breeding and wintering bird surveys based on established methodologies.

1.2 **Results**

Table 8.C.2: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird characterisation surveys

Common	Scientific name	Estimated no.	Conservation			
name		Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area ^{*1}	status*2	
Skylark	Alauda arvensis	√ (115)	√ (17)	√ (0)	Red listed; (Farmland Birds Action Plan); SPI	

^{*1} It should be noted that much of the Eastern Biodiversity Mitigation area was outside of the survey area.

*² Red / Amber / Green listed= Birds of Conservation Concern (Eaton et al., 2021) listing assesses bird species on the basis of their population status, reflecting changes in their abundance and range. Red list species are of high nature conservation concern; Amber list species are of medium conservation concern.

SPI = Species of Principal under the provisions of the NERC Act 2006

Table 8.C.3: Summary of results from the breeding bird characterisation surveys (providing presence information only, the numbers show the total registrations for the survey period, not the number of territories)

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Steeple Renewables Project

BTO	Common name	Scientific name	Bird prese	nce		Conservatio
Code				of registrations	from March to	n status*
				July 2023)		
			Proposed	Western	Eastern	
			Solar	Biodiversity	Biodiversity	
			Area	Mitigation	Mitigation	
				Area	Area*	
В.	Blackbird	Turdus merula	√(81)	√(9)		Green listed
BC	Blackcap	Sylvia atricapilla	√(1)	√(5)		Green listed
BF	Bullfinch	Pyrrhula	√(7)			Amber listed,
		pyrrhula				SPI
BO	Barn Owl	Tyto alba	√(9)		√(1)	Green listed,
						Sch1
BT	Blue Tit	Cyanistes	√(3)	√(1)		Green listed
		caeruleus				
BZ	Buzzard	Buteo buteo	√(15)	√(2)		Green listed
C.	Carrion Crow	Corvus corone	√(93)			Green listed
СС	Chiffchaff	Phylloscopus	√(3)	√(2)		Green listed
		collybita				
СН	Chaffinch	Fringilla coelebs	√(38)	√(7)		Green listed
CU	Curlew	Numenius	√(3)			Red listed,
		arquata				SPI
D.	Dunnock	Prunella	√(15)	√(1)		Amber listed,
		modularis				SPI
ET	Little Egret	Egretta garzetta	√(2)			Green listed
G.	Green	Picus viridis	√(1)			Green listed
	Woodpecker					
GJ	Greylag Goose	Anser anser	√(11)			Amber listed
GO	Goldfinch	Carduelis	√(48)	√(26)		Green listed
		carduelis				
GR	Greenfinch	Chloris chloris	√(4)			Red listed
GT	Great Tit	Parus major	√(1)			Green listed
Н.	Grey Heron	Ardea cinerea	√(2)			Green listed
JD	Jackdaw	Coloeus	√(108)			Green listed
		monedula				
К.	Kestrel	Falco	√(17)		√(1)	Amber listed
		tinnunculus				
LB	Lesser Black-	Larus fuscus	√(7)			Amber listed
	backed Gull					
LI	Linnet	Linaria	√(80)	√(14)		Red listed,
		cannabina				SPI
LO	Little Owl	Athene noctua	√(4)	√(1)		Green listed

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Steeple Renewables Project

BTO	Common name	Scientific name	Bird prese	nce		Conservatio	
Code			-	of registrations	from March to	n status*	
				July 2023)			
			Proposed	Western	Eastern		
			Solar	Biodiversity	Biodiversity		
			Area	Mitigation	Mitigation		
				Area	Area*		
LT	Long-tailed Tit	Aegithalos	√(21)			Green listed	
		caudatus					
LW	Lesser	Curruca curruca	√(1)	√(1)		Green listed	
	Whitethroat						
MA	Mallard	Anas	√(41)			Amber listed	
		platyrhynchos					
MG	Magpie	Pica pica	√(16)			Green listed	
MP	Meadow Pipit	Anthus pratensis		√(16)		Amber listed	
MS	Mute Swan	Cygnus olor	√(1)			Amber listed	
Ρ.	Grey Partridge	Perdix perdix	√(3)			Red listed	
PH	Pheasant	Phasianus	√(17)	√(1)		Green listed	
		colchicus					
PW	Pied Wagtail	Motacilla alba		√(6)		Green listed	
R.	Robin	Erithacus	√(22)	√(2)		Green listed	
		rubecula					
RB	Reed Bunting	Emberiza	√(31)			Amber listed,	
		schoeniclus				SPI	
RL	Red-legged	Alectoris rufa	√(45)	√(10)		Green listed	
	Partridge						
RO	Rook	Corvus	√(130)	√(14)		Amber listed	
		frugilegus					
SD	Stock Dove	Columba oenas	√(25)			Amber listed	
SG	Starling	Sturnus vulgaris	√(35)			Red listed,	
						SPI	
SH	Sparrowhawk	Accipiter nisus	√(1)			Amber listed	
SL	Barn Swallow	Hirundo rustica	√(4)			Green listed	
ST	Song Thrush	Turdus		√(8)		Amber listed,	
		philomelos				SPI	
Т.	Teal	Anas crecca	√(2)			Amber listed	
ТО	Tawny Owl	Strix aluco	√(2)			Amber listed	
W.	Northern	Oenanthe	√(2)	√(2)		Amber listed	
	Wheatear	oenanthe					
WH	Whitethroat	Curruca	√(17)	√(8)	√(1)	Amber listed	
		communis					

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www.steeplerenewablesproject.co.uk

BTO	Common name	Scientific name	Bird presen	ice		Conservatio
Code			(and count	(and count of registrations from March to		
			July 2023)			
			Proposed	Western	Eastern	
			Solar	Biodiversity	Biodiversity	
			Area	Mitigation	Mitigation	
				Area	Area*	
WP	Woodpigeon	Columba	√(140)			Amber listed
		palumbus				
WR	Wren	Troglodytes	√(19)	√(8)		Amber listed
		troglodytes				
WW	Willow Warbler	Phylloscopus	√(6)			Amber listed,
		trochilus				SPI
Υ.	Yellowhammer	Emberiza	√(104)	√(16)		Red listed,
		citrinella				SPI
YW	Yellow Wagtail	Motacilla flava	√(30)	√(3)		Red listed,
						SPI

*1 It should be noted that much of the Eastern Biodiversity Mitigation area was outside of the survey area.

*² Red / Amber / Green listed= Birds of Conservation Concern (Eaton et al., 2021) listing assesses bird species on the basis of their population status, reflecting changes in their abundance and range. Red list species are of high nature conservation concern; Amber list species are of medium conservation concern.

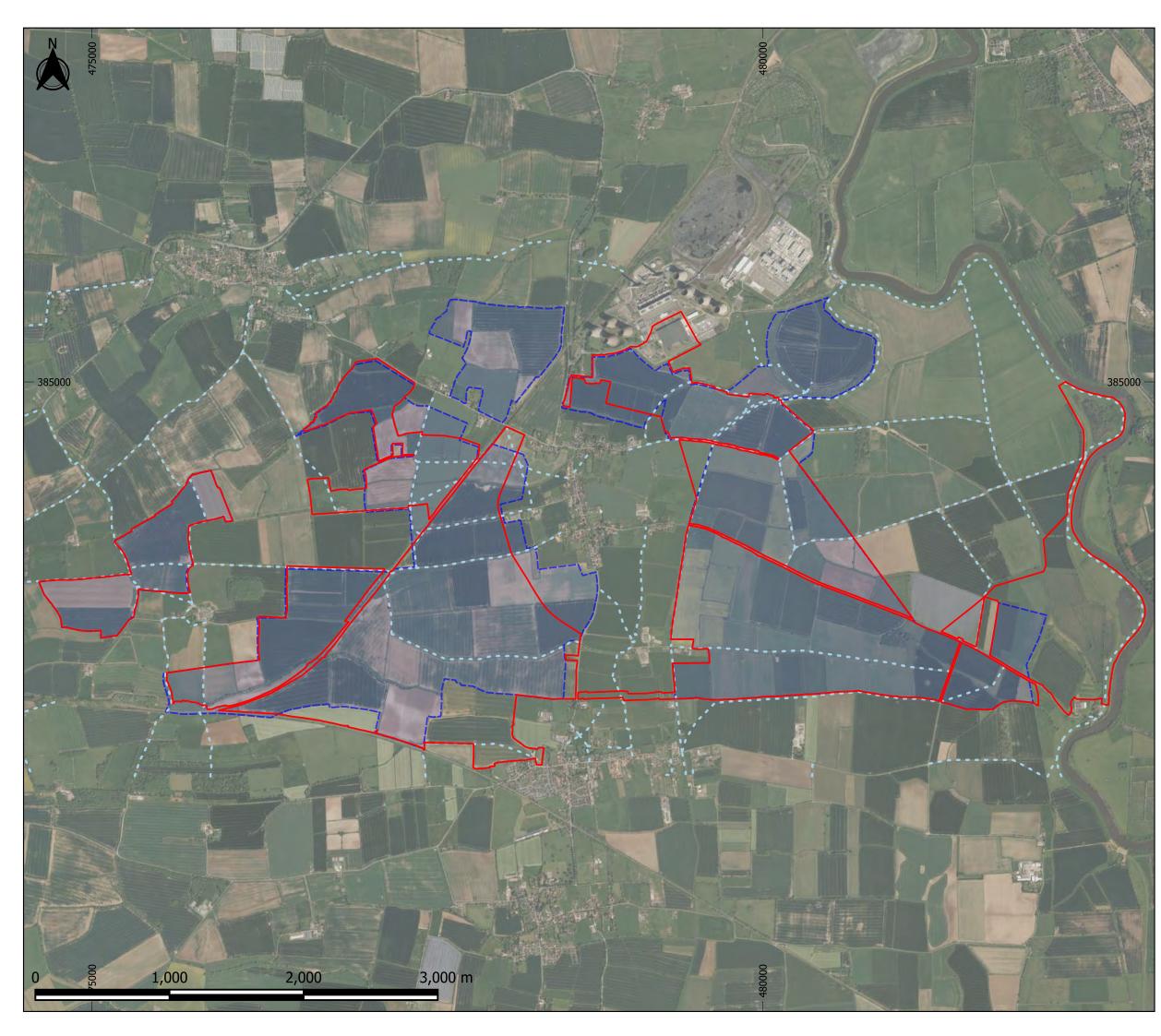
SPI = Species of Principal under the provisions of the NERC Act 2006

Sch1 - Birds listed under Schedule 1 of the Wildlife and Countryside Act 1981 (as amended)

1.3 **References**

Eaton, M.A., et al. (2021). 'The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain'. British Birds 114: 723-747.

1.4 Figures





Breeding bird characterisation 2023 survey boundary

Site boundary

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Note: the 2023 breeding bird characterisation surveys were undertaken from PRoW only.

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JOB REF: P22-761

PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.1: Survey area of the 2023 breeding bird characterisation surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary

385000 -



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE

Figure 8.C.2a: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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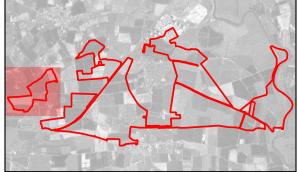
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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE

Figure 8.C.2b: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE

Figure 8.C.2c: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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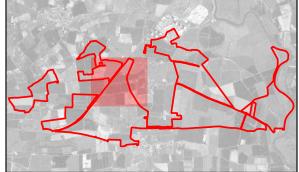
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S. Confirmed breeding or likely breeding skylark

Site boundary



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JOB REF: P22-761

PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2d(1): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2d(2): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2d(3): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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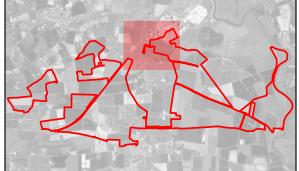
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S. Confirmed breeding or likely breeding skylark

Site boundary



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JOB REF: P22-761

PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2e(1): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2e(2): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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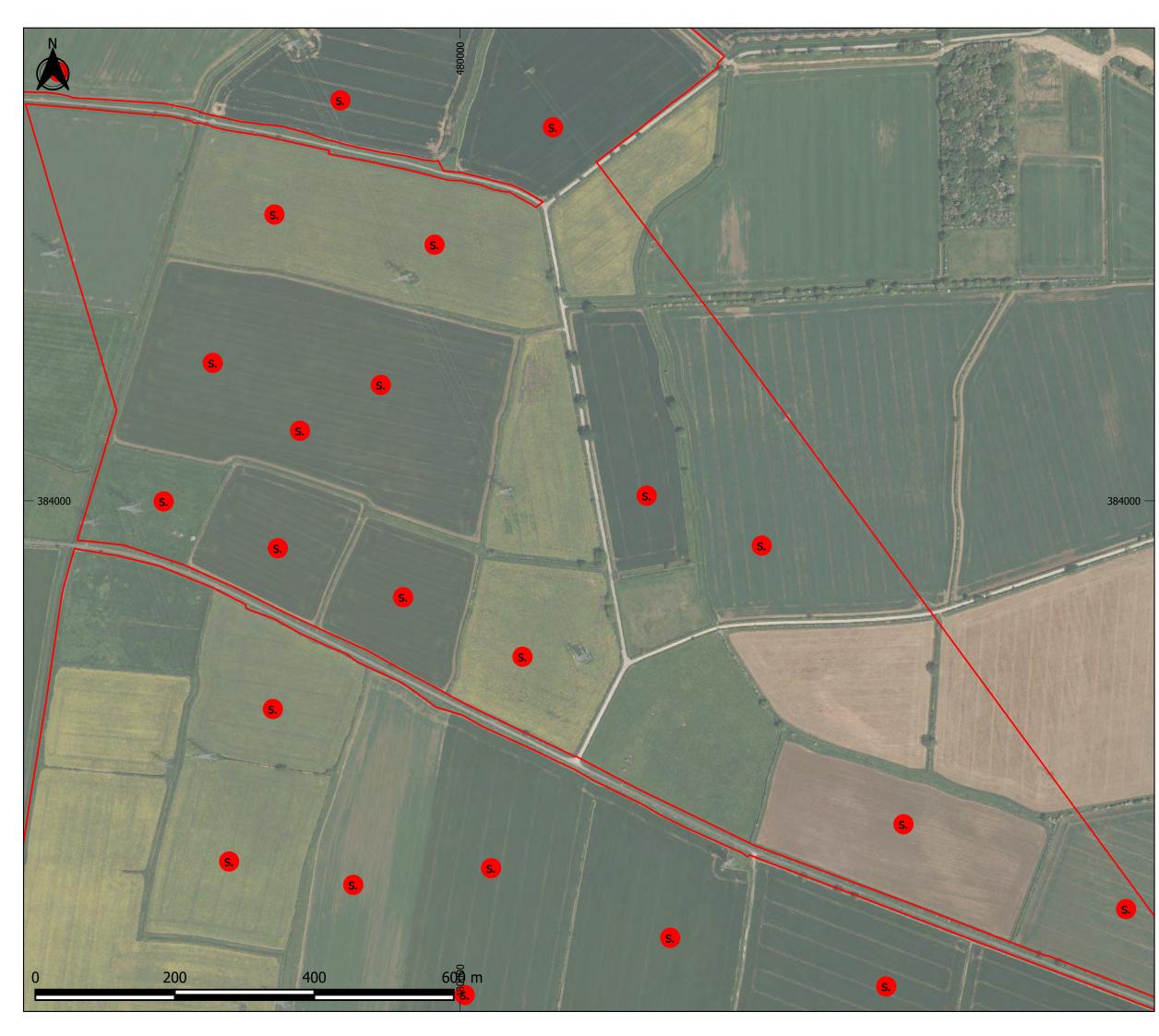
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S. Confirmed breeding or likely breeding skylark

Site boundary



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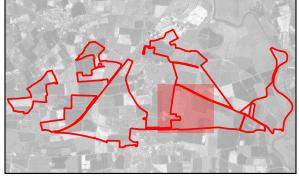
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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2f(1): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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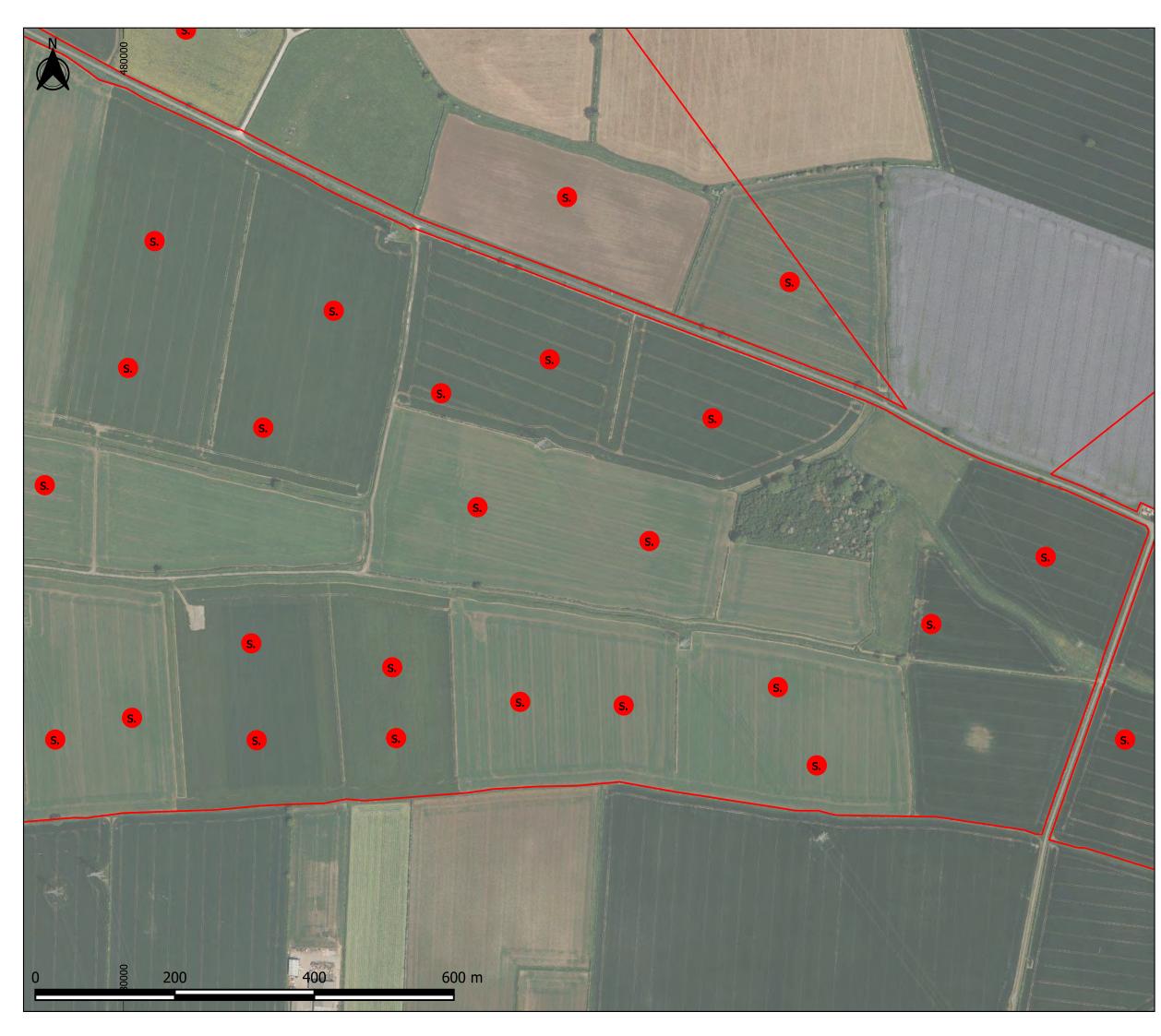
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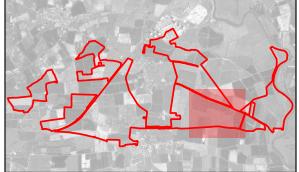
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S. Confirmed breeding or likely breeding skylark

Site boundary



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JOB REF: P22-761

PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2f(2): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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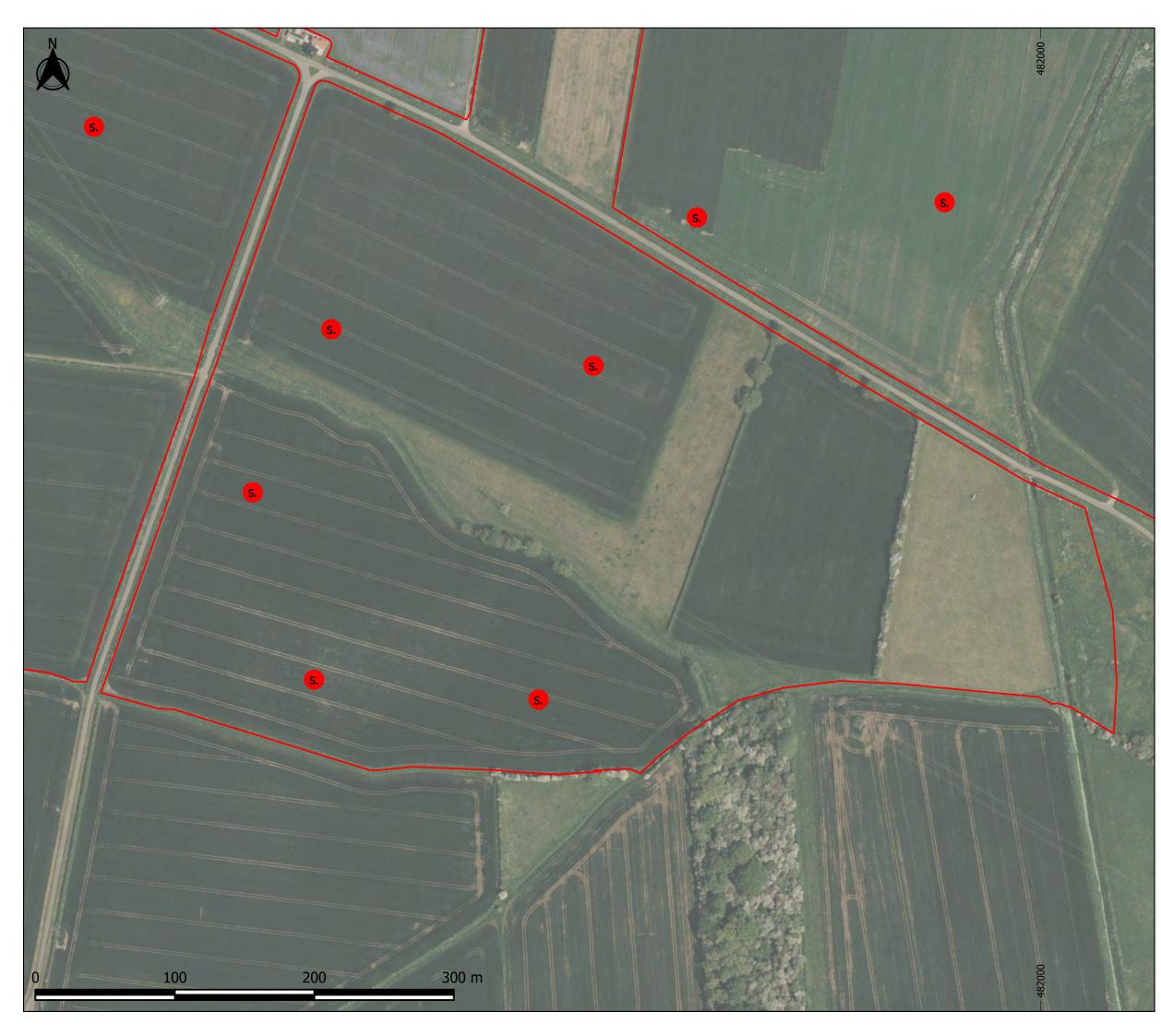
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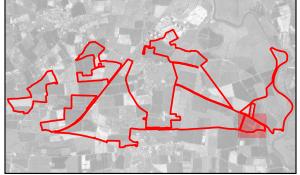
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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE

Figure 8.C.2g: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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DRAWN: CS	APPROVED: DF	VERSION:1.0

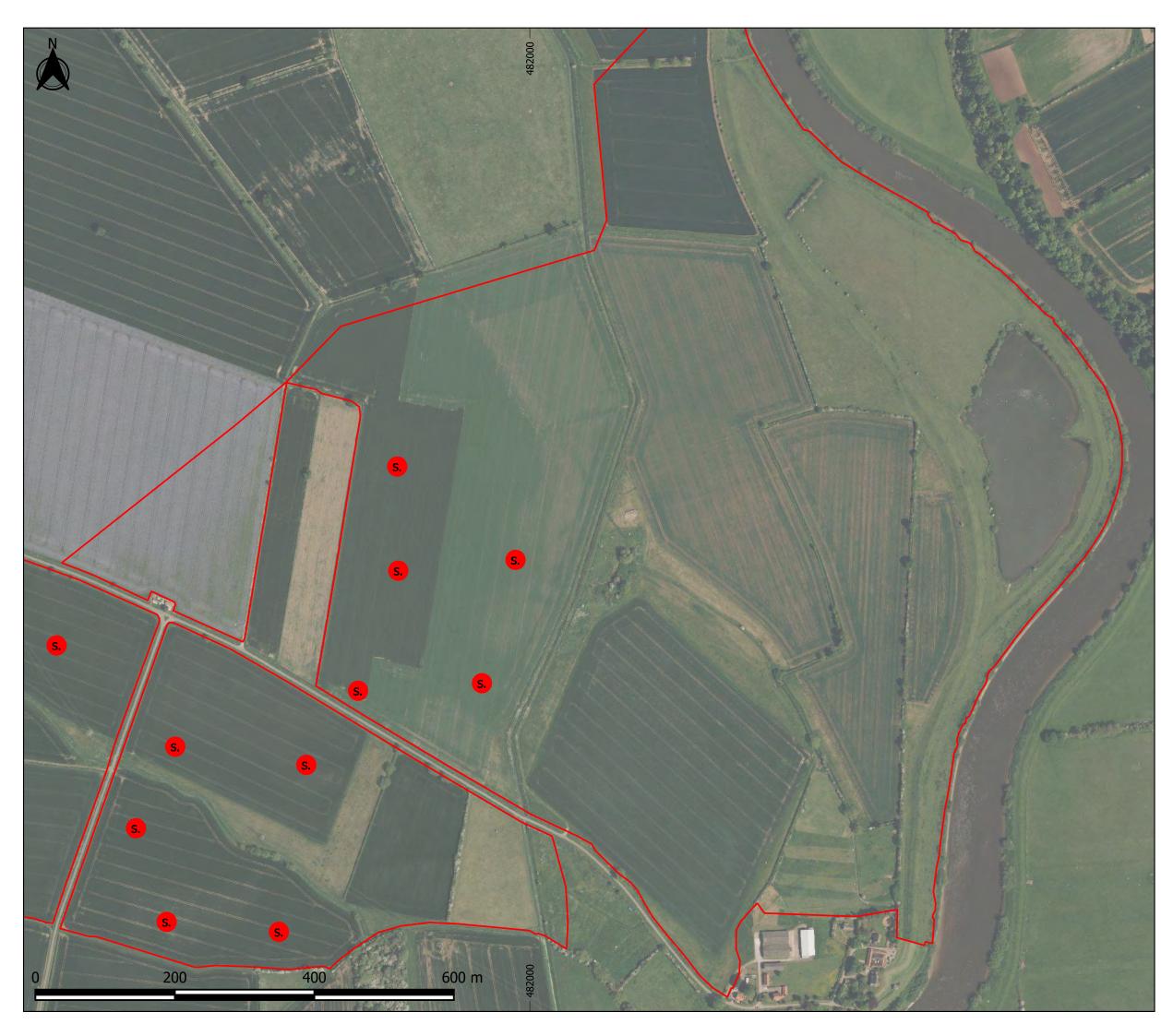
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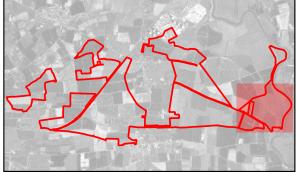
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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE

Figure 8.C.2h: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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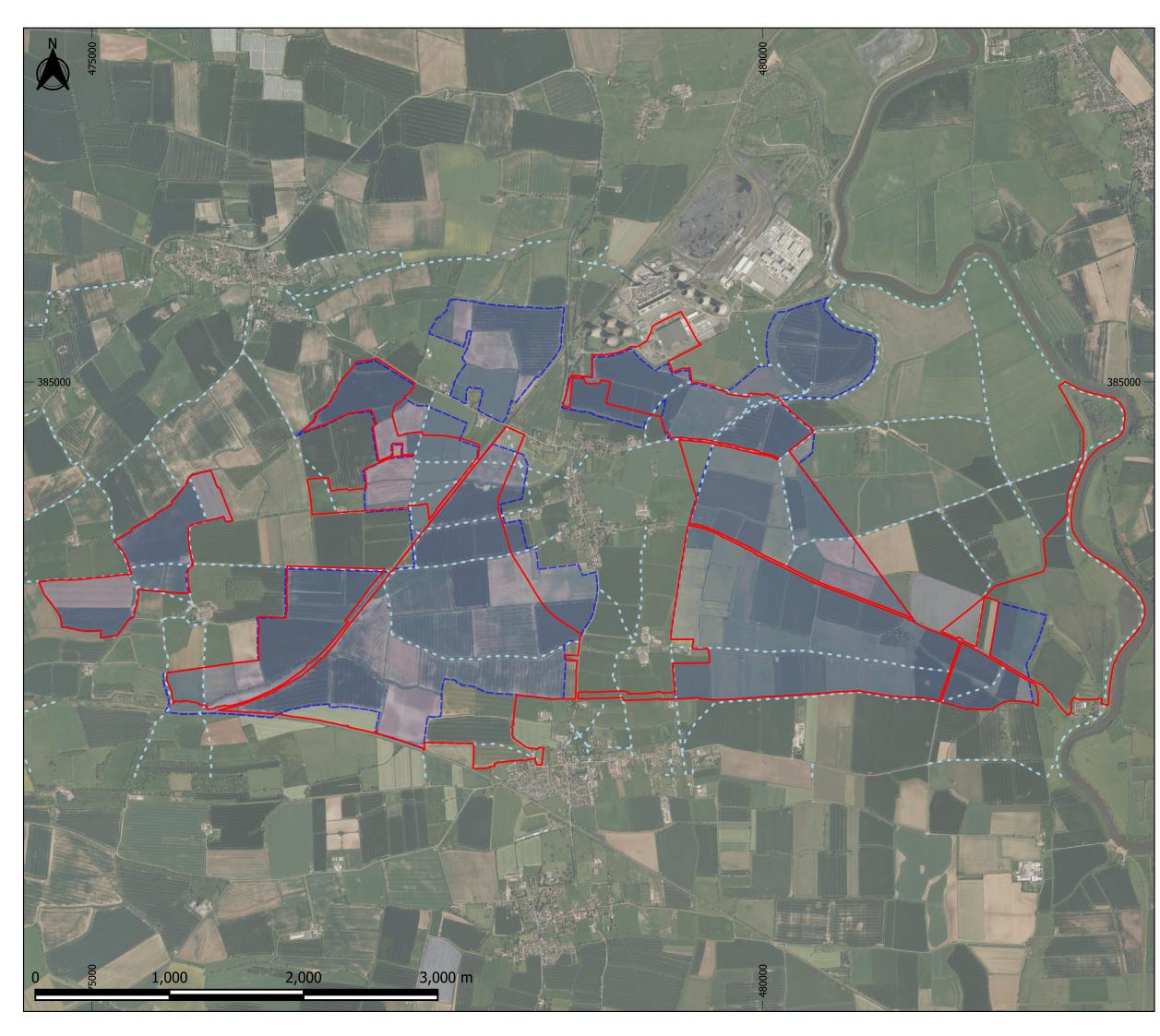
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Breeding bird characterisation 2023 survey boundary

Site boundary

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Note: the 2023 breeding bird characterisation surveys were undertaken from PRoW only.

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JOB REF: P22-761

PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.1: Survey area of the 2023 breeding bird characterisation surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary

385000 -



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE

Figure 8.C.2a: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE

Figure 8.C.2b: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE

Figure 8.C.2c: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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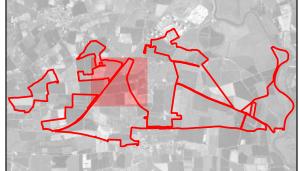
Projection: OSGB 1936/British National Grid - EPSG 27700





S. Confirmed breeding or likely breeding skylark

Site boundary



BSG ecology

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JOB REF: P22-761

PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2d(1): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

DATE: 26/03/2024	CHECKED: EM	SCALE: 1:5,000
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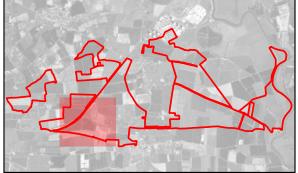
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S. Confirmed breeding or likely breeding skylark

Site boundary



BSG ecology

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JOB REF: P22-761

PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2d(2): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2d(3): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2e(1): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2e(2): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

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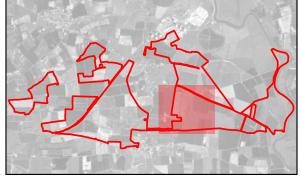
Projection: OSGB 1936/British National Grid - EPSG 27700





S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2f(1): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

DATE: 26/03/2024	CHECKED: EM	SCALE: 1:5,000
DRAWN: CS	APPROVED: DF	VERSION:1.0

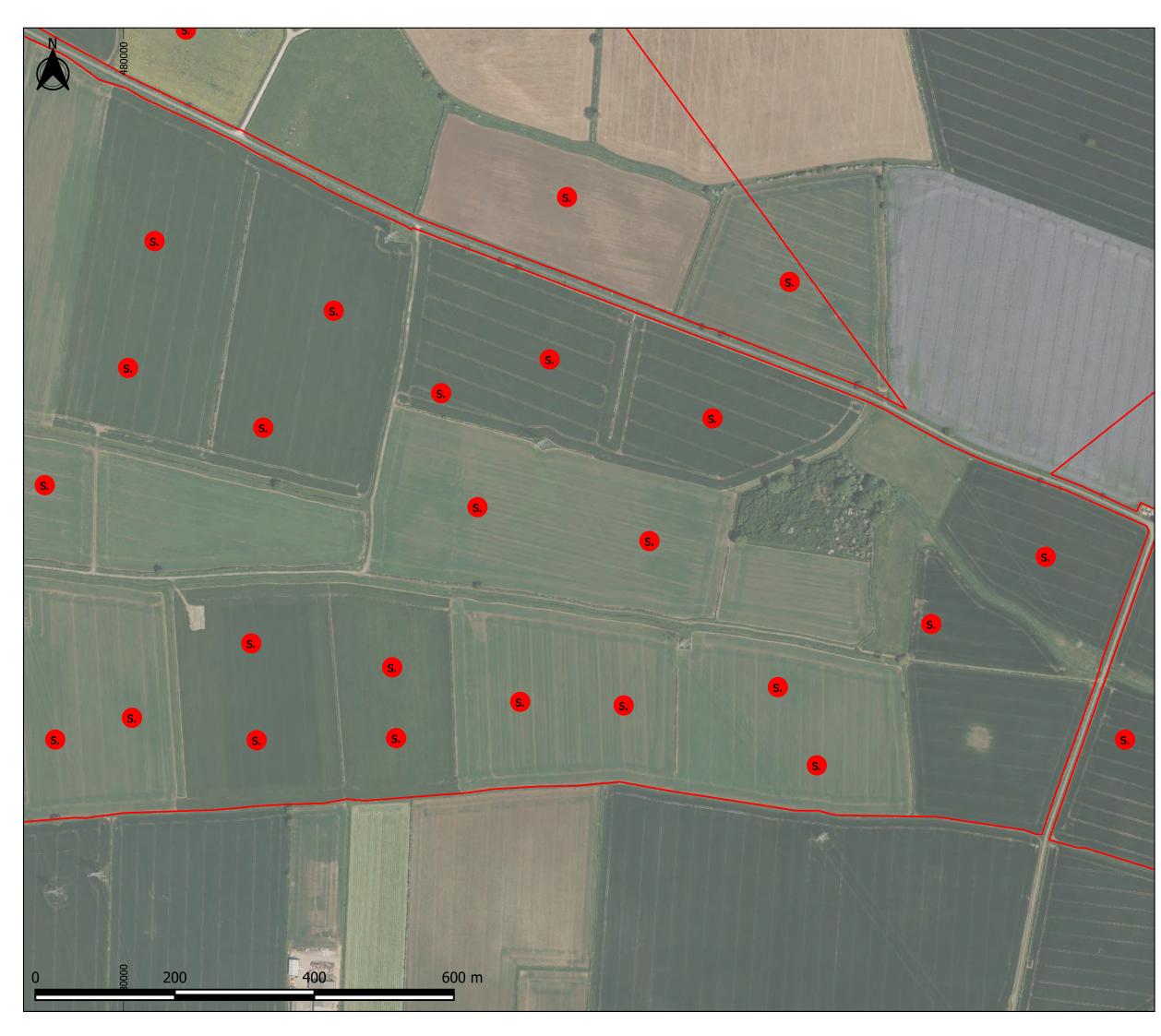
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S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.C.2f(2): Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

DATE: 26/03/2024	CHECKED: EM	SCALE: 1:5,000
DRAWN: CS	APPROVED: DF	VERSION:1.0

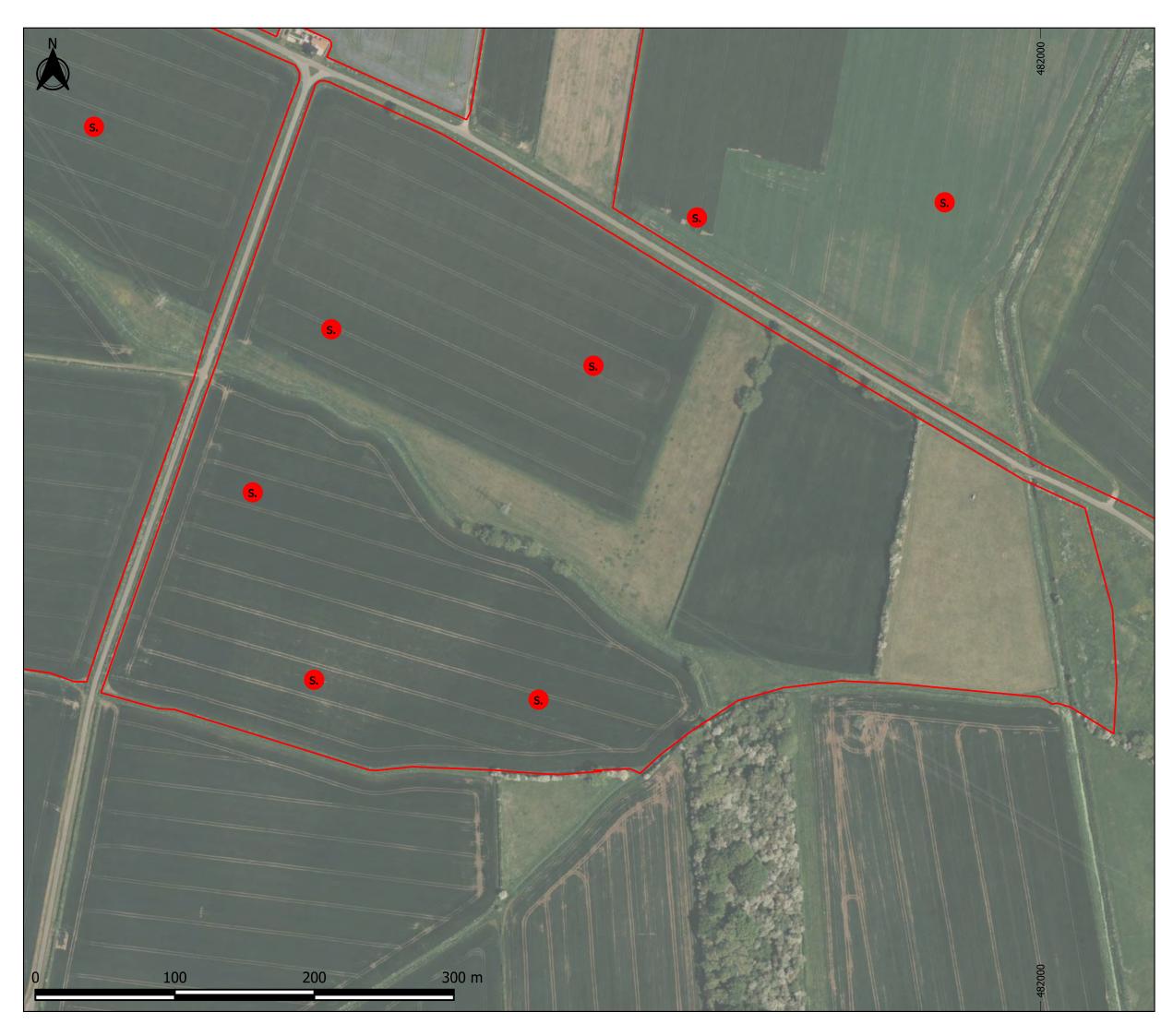
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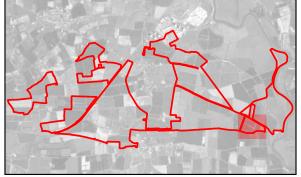
Projection: OSGB 1936/British National Grid - EPSG 27700





S. Confirmed breeding or likely breeding skylark

Site boundary



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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE

Figure 8.C.2g: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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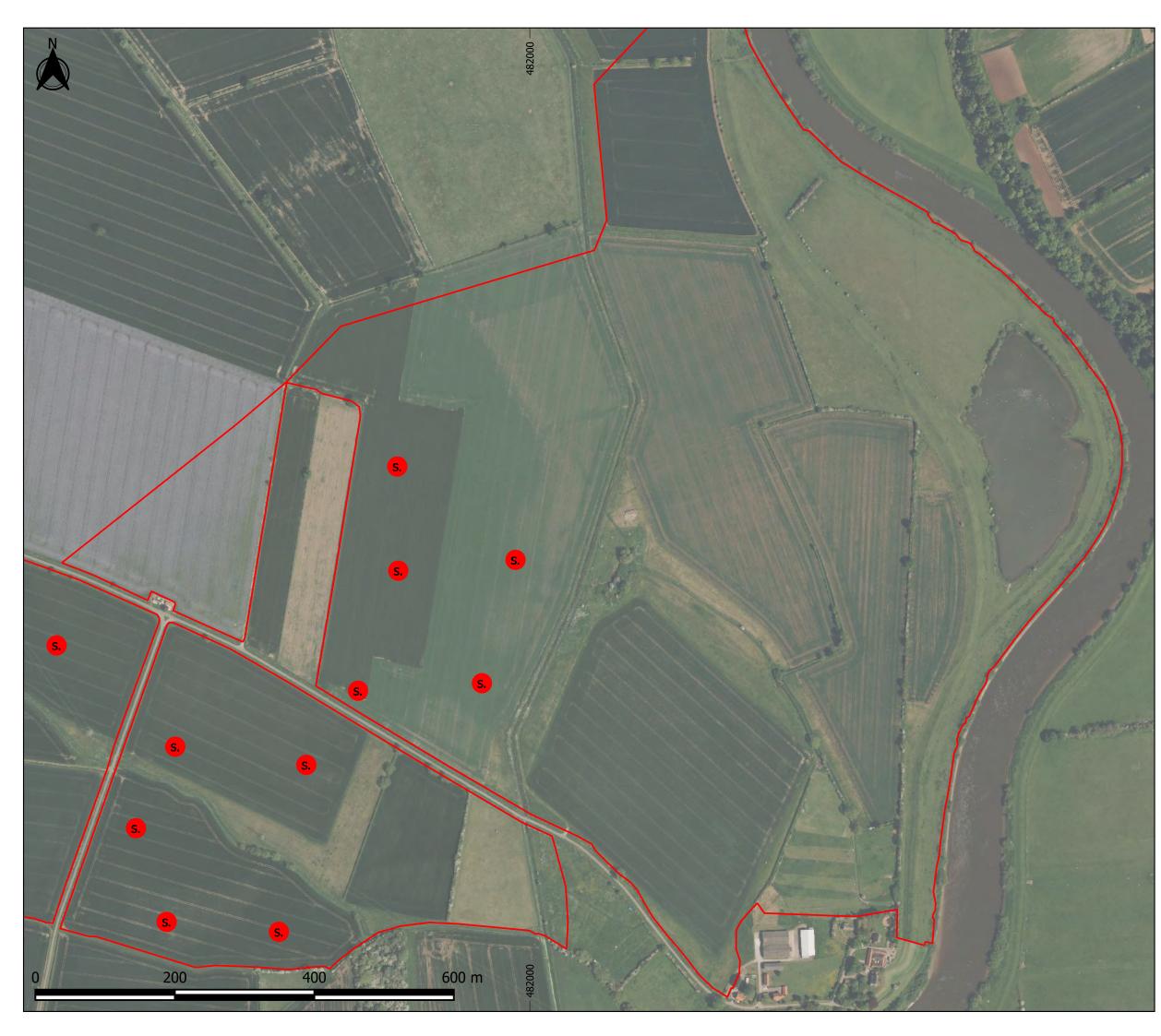
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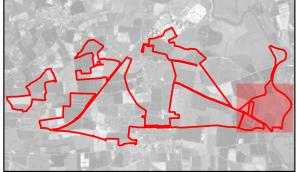
Projection: OSGB 1936/British National Grid - EPSG 27700





S. Confirmed breeding or likely breeding skylark

Site boundary



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DRAWING TITLE

Figure 8.C.2h: Summary of confirmed breeding or likely breeding skylark from the 2023 breeding bird surveys

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DRAWN: CS	APPROVED: DF	VERSION:1.0

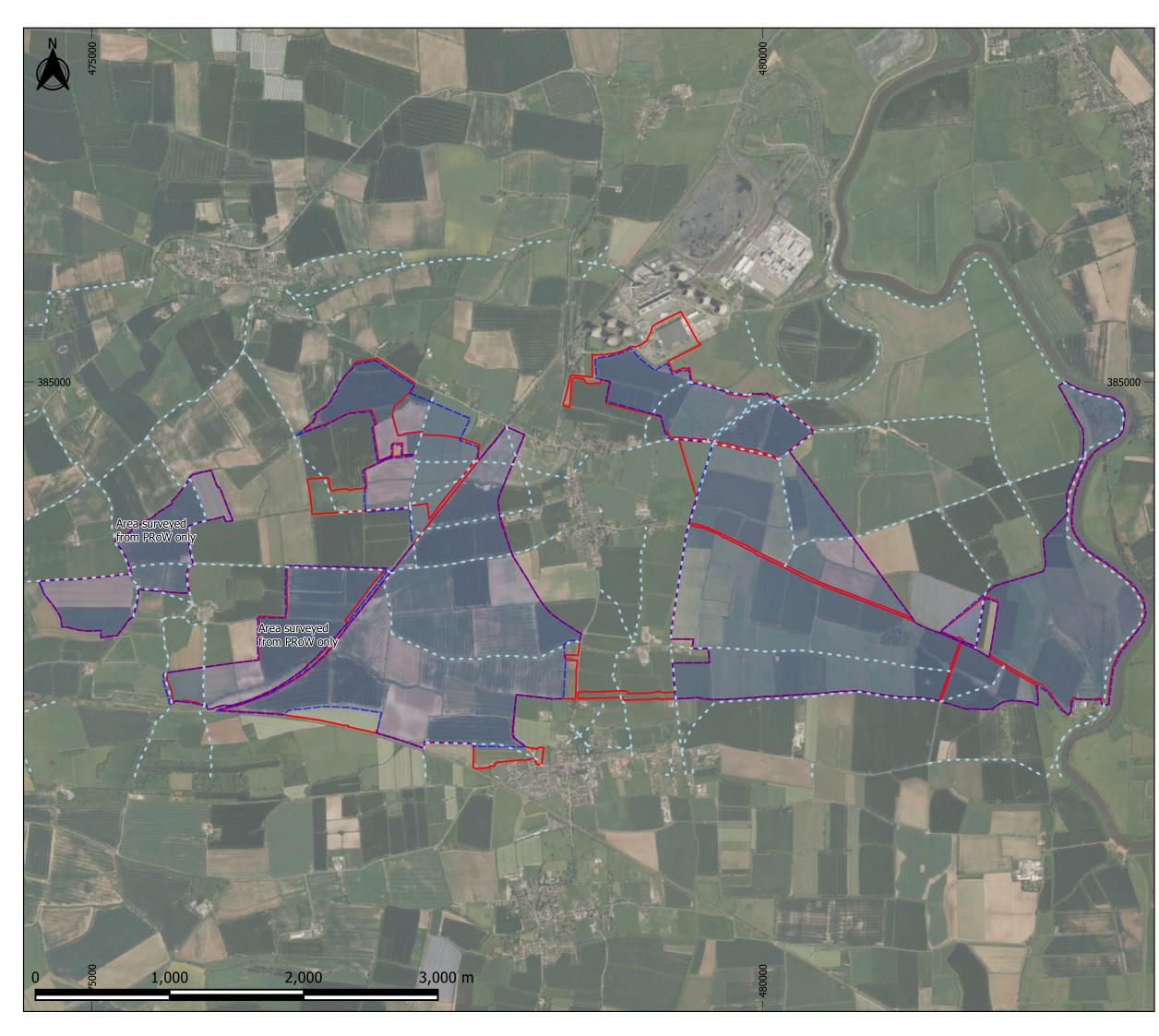
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- Wintering bird characterisation 2023-24 survey boundary
- Site boundary
- --- Public Right of Way (PRoW)

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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.D.1: Survey area of the 2023-24 wintering bird surveys

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Steeple Renewables Project

Environmental Impact Assessment Scoping Report Appendix 8D: Wintering Bird Characterisation Survey

Land at Sturton-le-Steeple, Nottinghamshire

Prepared by: BSG Ecology



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Figure 8.D.1 Survey area of the 2023-24 wintering bird survey

1. Appendix 8D: Wintering Bird Characterisation Survey

1.1 Methodology

- 1.1.1 Characterisation surveys of the wintering bird community were undertaken between October 2023 and March 2024 with one visit per month. Owing to the size of the survey area, each survey was split over five days, as presented in **Table 8.D.1**, which shows the survey details.
- 1.1.2 During each visit, the surveyor walked across the survey area scanning all habitats present (within the survey boundary and the immediate surrounding area) using binoculars as required. Frequent stops were made to listen and scan for birds. Birds observed beyond the boundary were also noted. Bird locations were mapped and behaviour recorded using standard British Trust for Ornithology (BTO) codes and symbols (Gilbert, G., Gibbons, D.W. & Evans, J., 1998).

Table 8.D.1: Dates of breeding bird characterisation survey visits and weather conditions

Date	Cloud Cover (Oktas)	Precipitation	Wind (Beaufort)	Visibility
23.10.23	8	None	1	Misty morning then excellent
24.10.23	8	Showers	3	Fair
25.10.23	3	None	2	Excellent
26.10.23	3	Light drizzle	2	Fair
27.10.23	3	Showers	2	Mist early morning
20.11.23	4	None	1	Excellent
21.11.23	8	Occasional light rain	3	Excellent
22.11.23	8	None	1	Excellent
23.11.23	7	None	3	Excellent
24.11.23	5	None	2	Excellent
11.12.23	2	None	2	Excellent
12.12.23	8	None	2	Fair

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Date	Cloud Cover (Oktas)	Precipitation	Wind (Beaufort)	Visibility
13.12.23	8	Occasional heavy showers	3	Misty morning then excellent
14.12.23	4	None	2	Excellent
15.12.23	4	None	2	Excellent
08.01.24	8	None	2	Excellent
09.01.24	6	None	2	Excellent
10.01.24	7	None	2	Excellent
11.01.24	8	Light rain	2	Excellent
12.01.24	8	Light drizzle	2	Excellent
05.02.24	5	None	3	Excellent
06.02.24	8	Light rain	4	Excellent
07.02.24	2	None	2	Excellent
08.02.24	8	Snow showers	3	Poor
09.02.24	4	light rain	3	Fair
04.03.24	8	None	3	Excellent
05.03.24	7	None	2	Excellent
06.03.24	8	None	2	Excellent
07.03.24	8	None	2	Fair
08.03.24	8	None	3	Fair

1.1.3 The conservation status of each species of bird was taken into account and with species present on the following lists a priority for recording behaviour:

- The Wildlife and Countryside Act 1981 (as amended), Schedule 1.
- Species of Principal Importance (SPI) for the Conservation of Biodiversity in England as listed in accordance with section 41 of the Natural Environment and Rural Communities Act (NERC) 2006 (S41).
- Species of high and medium conservation concern (red and amber listed species respectively) included in Birds of Conservation Concern 3 (Eaton et al., 2021).

Consideration of potential limitations

- 1.1.4 Full access was not possible to two areas of Site (as shown on **Figure 8.D.1**) and these were surveyed from public rights of way; these areas are largely identified as being for biodiversity enhancements. The remainder of the Site had full access available, including the majority of the areas that are identified for the Proposed Solar Areas.
- 1.1.5 Minor modifications to the Site boundary following the completion of the wintering bird surveys has resulted in the removal of certain surveyed areas, and the inclusion of some small areas that were not surveyed. However, the main areas impacted by the Proposed Solar Areas have remained similar.
- 1.1.6 These limitations are not considered to be significant, as the majority of the Site, including the areas to be impacted by the Proposed Solar Areas, were extensively surveyed. The wintering bird characterisation survey is considered to be robust and has enabled the identification of any protected or sensitive ornithological receptors.

Personnel

1.1.7 The wintering bird characterisation surveys were undertaken by Andrew Cockroft. Andrew is an experienced ornithological surveyor who regularly undertakes breeding and wintering bird surveys based on established methodologies.

1.2 **Results**

- 1.2.1 The results from the October to December 2023 surveys have been digitised and tabulated below. The remaining survey data from the January to March 2024 visits are pending analysis and digitisation.
- 1.2.2 The results of the surveys have been considered with respect to the Proposed Solar Areas, the Western Biodiversity Mitigation Area and the Eastern Biodiversity Mitigation Area. The Conservation Status has been considered with reference to Birds of Conservation Concern red lists and amber lists (Eaton et al., 2021). The conservation status, presence and estimated count of bird registrations are presented in **Table 8.D.1**.
- 1.2.3 A total of 58 bird species were recorded within the Proposed Solar Areas from October to December 2023. These included a variety of species, of which 15 are 'red list' and a further 20 are 'amber list' (refer to **Table 8.D.2**).

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- 1.2.4 Compared to the Proposed Solar Areas, an additional 27 species were recorded within the Eastern Biodiversity Mitigation Site, which had a total of 57 species recorded overall. This area supports a greater diversity of wetland birds and waders than does the Proposed Solar Area. Of the additional 27 species in the Eastern Biodiversity Mitigation Area, six are 'red list' species (dunlin, hen harrier, house sparrow, lapwing, mistle thrush, and pochard) and nine are amber list species (refer to **Table 8.D.2** for the full list).
- 1.2.5 The Western Biodiversity Mitigation Site had a total count of 28 species observed from October to December 2023. The majority were also observed in the Proposed Solar Areas; there were three species in the Western Biodiversity Area not being recorded within the Proposed Solar Areas- house sparrow, long-tailed tit, and mistle thrush.

Table 8.D.1: The confirmed presence (√), estimated count of registrations (shown in brackets), and conservation status for birds within the Proposed Solar Areas and in the Biodiversity Mitigation Areas between October and December 2023

				October			November			December		
BTO Code	Common name	Scientific name	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Conservation status*
B.	Blackbird	Turdus merula	√(20)	√(4)	√(6)	√(37)	√(1)	√(9)	√(70)	√(3)	√(9)	Green listed
ВН	Black-headed Gull	Chroicocephalus ridibundus	√(211)	_	-	√(75)	√(17)	-	√(118)	-	-	Amber listed
ВТ	Blue Tit	Cyanistes caeruleus	√(7)	√(1)	√(2)	√(2)	-	-	√(10)	√(4)	-	Green listed
BZ	Buzzard	Buteo buteo	√(6)	-	√(1)	√(6)	-	√(2)	√(9)	√(1)	√(1)	Green listed
C.	Carrion Crow	Corvus corone	-	-	-	√(70)	-	√(7)	√(81)	√(20)	√(8)	Green listed
CA	Cormorant	Phalacrocorax carbo	-	-	√(3)	-	-	-	-	-	√(3)	Green listed
CG	Canada Goose	Branta canadensis	√(3)	-	-	√(1)	-	-	-	-	-	Green listed
СН	Chaffinch	Fringilla coelebs	√(48)	√(10)	-	√(17)	-	-	√(36)	-	√(9)	Green listed
СМ	Common Gull	Larus canus	√(14)	-	-	√(9)	-	-	√(456)	-	-	Amber listed
CO	Coot	Fulica atra	-	-	-	-	-	-	-	-	√(6)	Green listed
СТ	Coal Tit	Periparus ater	√(2)	-	-	-	-	-	-	-	-	Green listed
D.	Dunnock	Prunella modularis	√(1)	-	-	√(4)	√(1)	√(1)	√(5)	-	√(2)	Amber listed
DN	Dunlin	Calidris alpina	-	-	-	-	-	-	-	-	√(2)	Red listed
ET	Little Egret	Egretta garzetta	√(6)	-	√(2)	√(1)	-	√(1)	-	-	√(4)	Green listed

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			October			November			December			
BTO Code	Common name	Scientific name	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Conservation status*
FF	Fieldfare	Turdus pilaris	√(90)	√(160)	-	√(310)	-	√(160)	√(65)	-	√(80)	Red listed
G.	Green Woodpecker	Picus viridis	-	-	-	-	-	-	-	-	√(1)	Green listed
GA	Gadwall	Mareca strepera	-	-	-	-	-	√(1)	-	-	√(12)	Amber listed
GB	Great Black-backed Gull	Larus marinus	-	-	-	-	-	-	√(2)	-	-	Amber listed
GC	Goldcrest	Regulus regulus	-	-	-	√(1)	-	-	-	-	-	Green listed
GJ	Greylag Goose	Anser anser	√(8)	-	-	√(15)	-	√(42)	√(11)	-	-	Amber listed
GO	Goldfinch	Carduelis carduelis	√(46)	-	-	√(39)	-	√(3)	√(117)	√(7)	√(8)	Green listed
GR	Greenfinch	Chloris chloris	√(4)	-	-	√(1)	-	-	√(12)	-	-	Red listed
GP	Golden Plover	Pluvialis apricaria	-	-	-	-	-	-	-	-	√(8)	Green listed
GS	Great Spotted Woodpecker	Dendrocopos major	-	-	-	-	-	-	-	-	√(1)	Green listed
GT	Great Tit	Parus major	√(3)	-	√(2)	-	-	√(2)	√(5)	√(6)	-	Green listed
GW	Garden Warbler	Sylvia borin	-	-	√(12)	-	-	-	-	-	-	Green listed
Н.	Grey Heron	Ardea cinerea	√(2)	-	√(5)	√(6)	-	√(2)	√(4)	-	√(3)	Green listed
HG	Herring Gull	Larus argentatus	√(15)	-	-	√(3)	-	-	√(14)	-	-	Red listed
HH	Hen Harrier	Circus cyaneus	-	-	√(1)	√(1)	-	-	√(1)	-	-	Red listed
HS	House Sparrow	Passer domesticus	-	√(8)	√(18)	-	√(7)	√(22)	√(3)	√(8)	√(4)	Red listed
HW	Great White Egret	Ardea alba	-	-	√(1)	-	-	-	-	-	-	Amber listed

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				October			November			December			
BTO Code	Common name	Scientific name	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Conservation status*	
JD	Jackdaw	Coloeus monedula	-	-	-	√(22)	-	√(9)	√(76)	-	√(30)	Green listed	
К.	Kestrel	Falco tinnunculus	√(4)	√(2)	√(3)	√(5)	√(2)	√(4)	√(7)	√(3)	√(3)	Amber listed	
L.	Lapwing	Vanellus vanellus	-	-	√(80)	-	-	√(43)	-	-	-	Red listed	
LB	Lesser Black-backed Gull	Larus fuscus	√(30)	-	-	√(23)	-	-	√(6)	-	-	Amber listed	
LG	Little Grebe	Tachybaptus ruficollis	-	-	√(1)	-	-	√(3)	-	-	√(2)	Green listed	
LI	Linnet	Linaria cannabina	√(157)	-	-	√(37)	-	-	√(326)	-	√(385)	Red listed	
LO	Little Owl	Athene noctua	-	-	-	√(1)	-	-	-	-	-	Green listed	
LT	Long-tailed Tit	Aegithalos caudatus	√(12)	-	√(7)	-	√(8)	√(8)	-	-	-	Green listed	
М.	Mistle Thrush	Turdus viscivorus	√(3)	-	√(1)	-	-	√(3)	-	√(2)	-	Red listed	
МА	Mallard	Anas platyrhynchos	√(5)	-	√(15)	√(8)	-	√(18)	√(5)	-	√(11)	Red listed	
MG	Magpie	Pica pica	√(2)	-	√(3)	-	-	√(6)	√(14)	√(2)	-	Green listed	
МН	Moorhen	Gallinula chloropus	-	-	√(4)	√(6)	-	√(2)	-	-	√(2)	Amber listed	
ML	Merlin	Falco columbarius	√(1)	_	-	-	-	-	-	-	-	Red listed	
MP	Meadow Pipit	Anthus pratensis	√(39)	√(9)	-	-	-	-	√(19)	√(6)	-	Amber listed	

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				October			November			December		
BTO Code	Common name	Scientific name	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Conservation status*
MR	Marsh Harrier	Circus aeruginosus	-	-	-	-	-	√(1)	-	-	-	Amber listed
MS	Mute Swan	Cygnus olor	√(2)	-	√(11)	-	-	√(40)	√(4)	-	√(13)	Amber listed
Ρ.	Grey Partridge	Perdix perdix	√(2)	-	-	√(4)	-	√(1)	√(2)	-	-	Red listed
PE	Peregrine	Falco peregrinus	-	-	-	√(2)	-	-	-	-	-	Green listed
PG	Pink-footed Goose	Anser brachyrhynchus	√(39)	-	-	-	-	-	-	-	-	Amber listed
РН	Pheasant	Phasianus colchicus	√(27)	√(11)	√(15)	√(30)	√(5)	-	√(45)	√(9)	√(8)	Green listed
PO	Pochard	Aythya ferina	-	-	√(1)	-	-	-	-	-	-	Red listed
PW	Pied Wagtail	Motacilla alba	√(57)	-	√(17)	√(2)	√(2)	√(2)	√(79)	-	√(4)	Green listed
R.	Robin	Erithacus rubecula	√(5)	-	√(2)	√(26)	√(1)	√(2)	√(13)	-	-	Green listed
RB	Reed Bunting	Emberiza schoeniclus	√(21)	√(2)	-	√(11)	√(2)	-	√(50)	√(3)	√(10)	Amber listed
RE	Redwing	Turdus iliacus	√(16)	-	-	√(62)	-	-	√(10)		√(20)	Amber listed
RL	Red-legged Partridge	Alectoris rufa	√(95)	√(14)	√(10)	√(92)	√(9)	-	√(49)	-	-	Green listed
RO	Rook	Corvus frugilegus	√(25)	-	-	√(32)	√(7)	-	√(21)	√(15)	√(10)	Green listed
RU	Ruff	Anser rossii	√(1)	-	-	-	-	-	-	-	-	Red listed
S.	Skylark	Alauda arvensis	√(137)	√(37)	√(10)	√(42)	√(2)	√(4)	√(40)	√(2)	-	Red listed
SC	Stonechat	Saxicola rubicola	√(6)	-	-	√(2)	-	-	-	-	-	Green listed
SD	Stock Dove	Columba oenas	-	-	√(2)	√(15)	√(11)	√(6)	√(14)	-	√(8)	Amber listed

Steeple Renewables Project

	Common name	Scientific name	October			November			December			
BTO Code			Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Proposed Solar Area	Western Biodiversity Mitigation Area	Eastern Biodiversity Mitigation Area	Conservation status*
SE	Short-eared Owl	Asio flammeus	-	-	-	√(2)	-	-	-	-	-	Amber listed
SG	Starling	Sturnus vulgaris	√(770)	√(770)	√(1700)	√(1645)	√(48)	√(1200)	√(1188)	√(140)	-	Red listed
SH	Sparrowhawk	Accipiter nisus	√(1)	-	√(2)	√(2)	-	√(1)	-	-	-	Amber listed
SI	Swift	Apus apus	-	-	-	√(2)	-	-	-	-	-	Red listed
SN	Snipe	Gallinago gallinago	√(4)	-	-	√(10)	-	√(8)	√(14)	-	-	Amber listed
ST	Song Thrush	Turdus philomelos	√(1)	-	-	√(1)	-	-	√(1)	-	-	Amber listed
SV	Shoveler	Spatula clypeata	-	-	√(6)	-	-	-	-	-	√(14)	Amber listed
T.	Teal	Anas crecca	-	-	√(2)	-	-	√(3)	-	-	√(13)	Amber listed
TU	Tufted Duck	Aythya fuligula	-	-	-	-	-	-	-	-	√(6)	Green listed
WN	Wigeon	Mareca penelope	-	-	√(24)	-	-	√(236)	-	-	√(525)	Amber listed
WP	Woodpigeon	Columba palumbus	√(361)	-	√(2)	√(353)	√(72)	√(67)	√(645)	√(80)	√(25)	Amber listed
WR	Wren	Troglodytes troglodytes	√(5)	√(1)	√(2)	√(9)	√(1)	√(1)	√(3)	-	-	Amber listed
Y.	Yellowhammer	Emberiza citrinella	√(90)	√(6)	-	√(12)	√(4)	√(7)	√(75)	√(10)	√(23)	Red listed

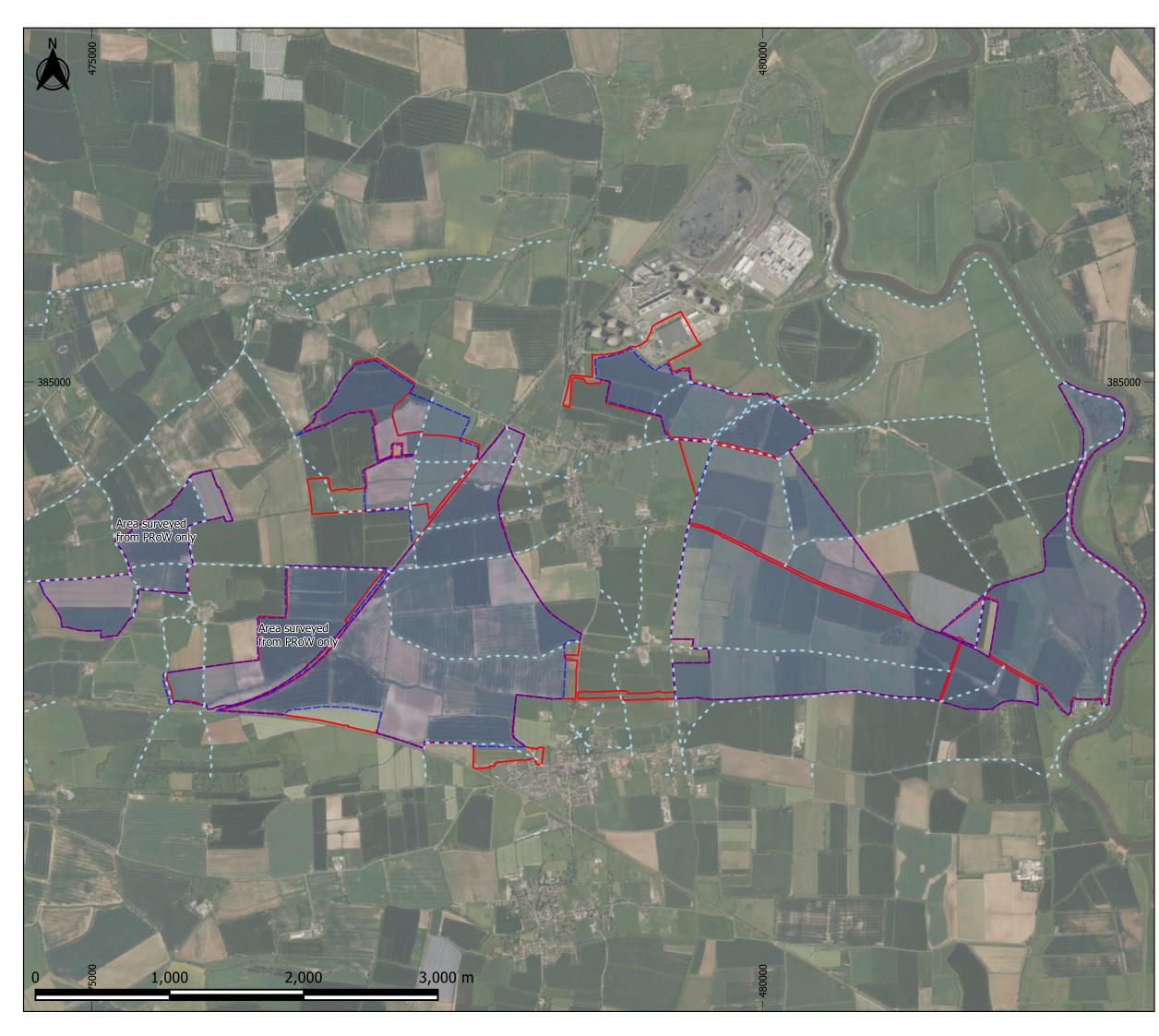
* Red / Amber / Green listed= Birds of Conservation Concern (Eaton *et al.*, 2021) listing assesses bird species on the basis of their population status, reflecting changes in their abundance and range. Red list species are of high nature conservation concern; Amber list species are of medium conservation concern.

Bold = indicated species associated with the Humber Estuary Ramsar Site Ramsar Criterion 6 (species occurring at levels of international importance)

1.3 **References**

Eaton, M.A., et al. (2021). 'The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain'. British Birds 114: 723-747. Gilbert, G., Gibbons, D.W. & Evans, J. (1998). 'Bird Monitoring Methods'. RSPB. Harris et al, (1989). 'Surveying Badgers'. The Mammal Society, London.

1.4 **Figures**



- Wintering bird characterisation 2023-24 survey boundary
- Site boundary
- --- Public Right of Way (PRoW)

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PROJECT TITLE STEEPLE RENEWABLES PROJECT

DRAWING TITLE Figure 8.D.1: Survey area of the 2023-24 wintering bird surveys

DATE: 26/03/2024	CHECKED: EM	SCALE: 1:26,000
DRAWN: CS	APPROVED: DF	VERSION:1.0

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No dimensions are to be scaled from this drawing and are to be checked on site. Area measurements for indicative purposes only.

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