



**RWE Renewables UK Dogger Bank
South (West) Limited**

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Dogger Bank South Offshore Wind Farms

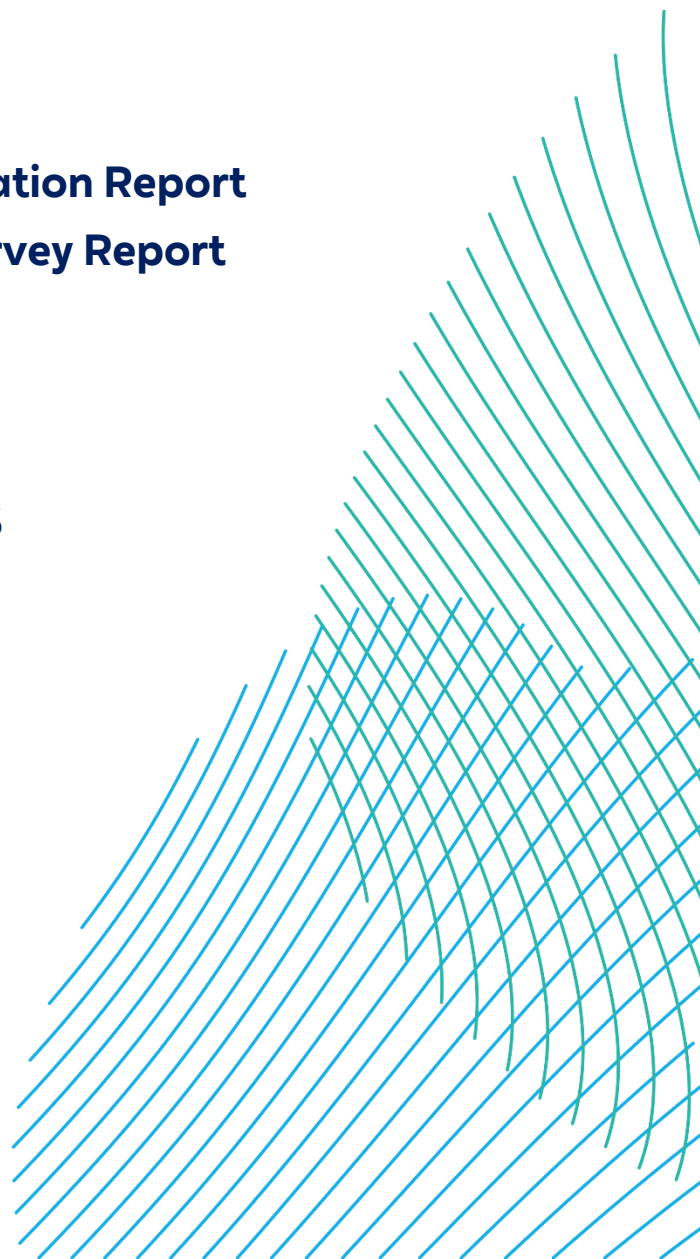
**Preliminary Environmental Information Report
Appendix 18-6 – Breeding Bird Survey Report**

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Appendix 18-6 Breeding Bird Survey
Report
Dogger Bank South Offshore Wind Farms

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EXECUTIVE SUMMARY

Overview

Nine breeding bird survey (BBS) transects were devised in early 2022 which would be used to ascertain the value of the habitats within the Onshore Study Area for breeding bird assemblages. The proposed transect routes were identified by Peak Ecology Ltd, on behalf of Royal HaskoningDHV via a desk-based exercise, such as aerial imagery. The proposed transect locations were based on likely concentrations of birds and general areas where the onshore export cables and/or onshore substations may be sited; whilst noting that the exact location of this infrastructure was not known at the time of the BBS surveys.

Sufficient access permission had not been gained for the 2022 survey season; therefore, surveys could be undertaken by Public Rights of Way (PROW) only. The PROW network was only sufficiently extensive to create workable transects in three of the nine targeted survey areas, therefore these transects were surveyed in 2022, with the remaining six transects programmed for survey in 2023 where access is available. Whilst some additional land access was granted, this was not early enough in the season to pick up the key breeding periods and was not sufficiently extensive to create additional transects.

Since the commencement/completion of the 2022 BBS survey effort, further refinements to the site selection and route planning workstreams have been undertaken which has resulted in the onshore survey areas being refined. Sections of the 2022 BBS survey area are now outside of these areas and whilst they provide useful baseline data, additional surveys are required to provide a more accurate representation of the site's use by breeding birds.

The results indicated that the habitats adjacent to the three surveyed transects supported assemblages of bird species typical of arable landscapes, with primarily ubiquitous species recorded, and small numbers of declining farmland specialists such as yellowhammer *Emberiza citrinella*, yellow wagtail *Motacilla flava*, corn bunting *Emberiza calandra*, tree sparrow *Passer montanus*, grey partridge *Perdix perdix*, starling *Sturnus vulgaris*, skylark *Alauda arvensis* and lapwing *Vanellus vanellus*. Rare breeders in Yorkshire, garganey *Spatula querquedula* and quail *Coturnix coturnix* were recorded within the survey area, with possible breeding of quail.

In addition, six Schedule 1 species were recorded, probable breeding was considered likely for Cetti's warbler *Cettia cetti* and barn owl *Tyto alba*, possible breeding of kingfisher *Alcedo atthis*, and non-breeding marsh harrier *Circus aeruginosus* and hobby *Falco subbuteo* which were observed flying over the site but may have been breeding in nearby habitats away from the transect. Marsh harrier and hobby are listed as rare breeders in Yorkshire (Dobbs, 2022).

Much of the surveyed areas travelled through arable farmland habitats, with the higher species diversities associated with the areas with a diversity of habitats, in particular wetland habitats supporting the most significant assemblages.

Implications and Recommendations

The survey results indicated that the transect areas supported a typical assemblage of farmland and generalist bird species, with no specific areas highlighted as supporting significant breeding assemblages or species. There were however some areas which showed a higher concentration of records when compared to other areas along the route.

No mitigation recommendations have been provided in this report as a final layout was not confirmed at the time of writing. Recommendations for further survey effort have been provided where necessary.

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1 INTRODUCTION

1.1 Scope of Report

This report has been prepared by Peak Ecology Ltd on behalf of Royal HaskoningDHV. This document presents the results of the three BBS transect surveys within the Onshore Study Area associated with the Dogger Bank South Offshore Wind Farms (the Projects). As landowner access permission had not been granted for the entire Onshore Study Area, transect routes followed PROWs and were designed to be representative of the Onshore Study Area.

The purpose of this report is to:

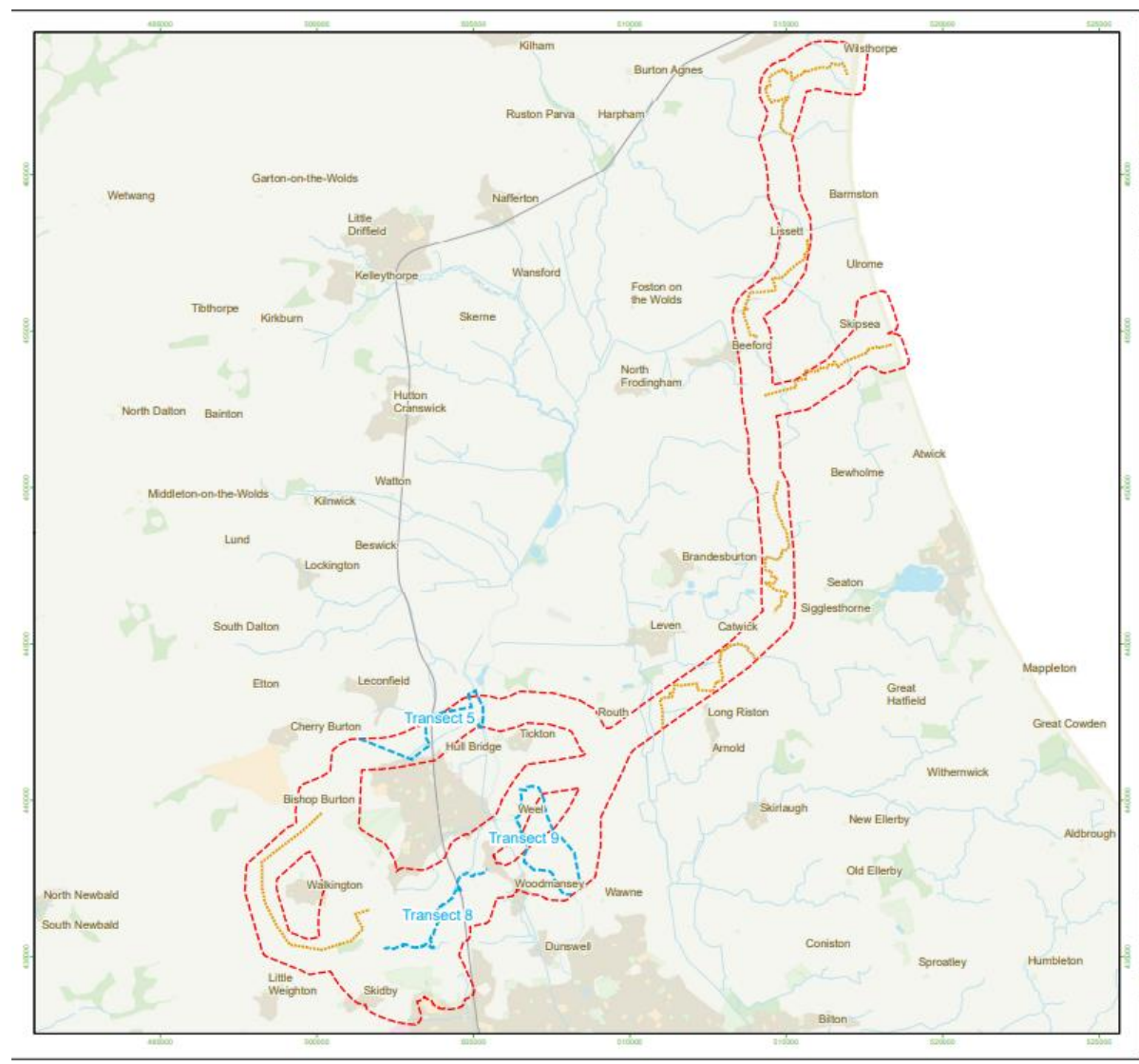
- Provide the results of the 2022 BBS;
- Identify key areas of bird activity in the vicinity of Onshore Search Area;
- Identify potential impacts to bird assemblages; and
- Provide recommendations where necessary.

The approach to this assessment follows best practice published by the Chartered Institute of Ecology and Environmental Management (CIEEM, 2018) and the British Standards Institution (BSI, 2013). Details of individual survey methods and associated supporting information are provided in Section 2.

1.2 Site Description

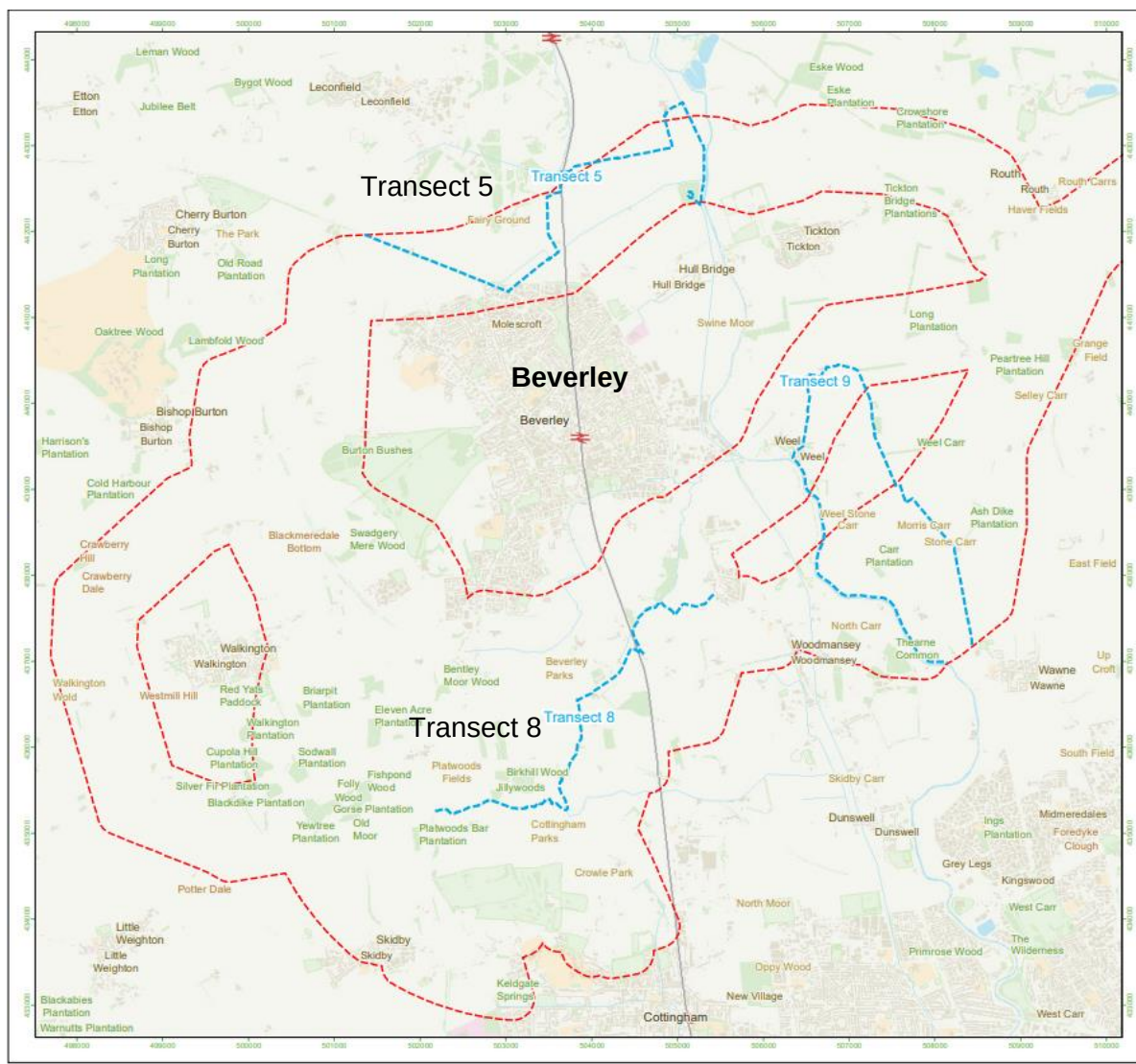
Nine transect routes were designed to ensure sufficient geographical coverage of the Onshore Search Area, three of which (T5, T8 and T9) have been surveyed in 2022, located close to Beverley, in East Yorkshire. The individual survey areas are described in more detail in the results section. The survey area locations are illustrated in Figures 1a and 1b.

Figure 1a: Location Plan, all proposed transects*



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Figure 2b: Location Plan of Surveyed Transects*



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2 METHODOLOGY

2.1 Desk Study

The desk study comprised a review of various online websites including the Royal Society for Protection of Birds (RSPB), National Biodiversity Network, MAGIC and British Trust for Ornithology (BTO). This was undertaken to gather background information on which species are likely to be present in the area and to identify potential important areas for birds.

Species and protected sites data was purchased from the North and East Yorkshire Ecological Data Centre.

2.2 Breeding Bird Survey

The surveys were undertaken between the months of April and August 2022 (inclusive), by Chris Bradshaw. Chris has extensive experience of bird surveys and is highly competent in this field. He has undertaken surveys, over many years, in a variety of habitat types, both in the UK and abroad and is authoritative in this field, under the CIEEM competency framework. Chris was accompanied by Peak Ecology staff for health and safety purposes whilst undertaking the surveys.

2.2.1 *Survey Methods*

Survey methods followed industry standards, outlined by BTO, RSPB and Joint Nature Conservation Committee (JNCC). Surveyors aimed to arrive on site within one hour of sunrise and completed the survey prior to midday. Times on site were noted on every survey visit, in addition to weather conditions and observations of disturbance which may have influenced the number of birds present on site.

All bird species were recorded, with behaviour, location and number of individuals. Suitable binoculars (x8 magnification) were used on all surveys, and telescopes carried with surveyors and used where necessary.

Surveys were scheduled to avoid unsuitable weather conditions, such as strong wind or rain, and poor visibility. Where unforeseen sub-optimal conditions were experienced, this was noted.

Transects

Transect surveys were completed following set transect routes and recorded all birds viewable from the transect route.

2.2.2 Access

Each of the transects were accessed via PRoW, as landowner access permission was not granted at the time of the first survey visit. The areas which could be accessed by PRoW allowed collection of data in the general area of the Onshore Survey Area, however, this was not always in close proximity to the survey area, and therefore some areas may have been under-represented in terms of the bird activity present. It should be noted that the corridor has since been refined, and surveys scheduled for the 2023 season, therefore access issues during these breeding bird surveys are not considered to be significant issue to effectiveness of the results.

2.2.3 Survey dates and conditions

The surveys were undertaken between April 2022 and August 2022 (inclusive).

Table 1: Survey dates and conditions

Visit No.	Transect 5 Survey details	Transect 8 Survey details	Transect 9 Survey details
1	<u>20/04/2022 (06:10-10:45)</u> Cloud 1/8, NE wind, BF2, early mist patches, 6-16°C, dry. Visibility 3km	<u>22/04/2022 (06:00-10:50)</u> Cloud 4/8-1/8, NE BF3-4, 8-16°C, dry. Visibility 3km+	<u>21/04/2022 (06:10-11:20)</u> Cloud 1/8, ENE BF 1-3, 5-16°C, dry. Visibility 3km+
2	<u>18/05/2022 (05:25-10:10)</u> Cloud 1/8, SW BF 2-3, 13-19°C, dry. Visibility 5km+	<u>20/05/2022 (05:10-09:30)</u> Cloud 8/8, SW BF2, 10-14°C, dry. Visibility 5km+	<u>19/05/2022 (05:10-11:00)</u> Cloud 1/8-7/8, SW BF2-3, overnight rain cleared for survey. Visibility 5km+
3	<u>21/06/2022 (04:45-10:15)</u> Cloud 1/8, SW BF2-3, 11-14°C, dry. Visibility 5km+	<u>23/06/2022 (04:50-09:15)</u> Cloud 6/8, S BF1-2, 13-14°C. Visibility 5km+	<u>22/06/2022 (04:50-10:15)</u> Cloud 0/8, NE BF 1-2, 12-20°C, dry. Visibility 5km+
4	<u>12/07/2022 (05:00-09:00)</u> Cloud 7/8, SW BF2, 20-24°C, dry. Visibility 5km+	<u>14/07/2022 (05:10-09:10)</u> Cloud 6/8, W BF3, 16-13°C, rain between 08:40-09:10. Visibility 5km-3km.	<u>13/07/2022 (05:00-10:00)</u> Cloud 7/8-4/8, WNW BF3, 16-22°C, dry. Visibility 5km+
5	<u>18/08/2022 (06:00-10:30)</u> Cloud 8/8, S/SW BF1-2, 13-20°C, dry. Visibility 5km+	<u>19/08/2022 (06:10-09:50)</u> Cloud 4/8-2/8, WSW BF2-3, 15-18°C, dry. Visibility 5km+	<u>17/08/2022 (06:00-11:00)</u> Cloud 8/8, NE BF4, 16°C. Visibility 5km+

2.3 Evaluation of Assemblage

The bird assemblages were evaluated using a range of criteria to establish the importance of the assemblage at varying geographical scales. Consulted criteria included:

- Birds of Conservation Concern 5 (BoCC5) (Stanbury *et al*, 2021) (see 2.3.1);
- Local and National Species of Principle Importance (see 2.3.2);
- Status in Yorkshire (Dobbs, 2022);
- Species Richness (Fuller, 1980); and
- Protected Site selection criteria:
 - Special Protection Area (SPA)
 - Site of Special Scientific Interest (SSSI)
 - Local Wildlife Site (LWS)

The nomenclature for common names follows that contained in The British List (BOU, 2017).

2.3.1 *Birds of Conservation Concern 5 (BoCC5)*

Under this approach, bird populations are assessed using quantitative criteria to determine the population status of each species, and then placed on one of three lists: red, amber or green.

- Red list species are of high conservation concern, having declined by 50% or more in population or breeding range in the last 25 years.
- Amber listed species are of medium conservation concern, having suffered between 25% and 49% reduction in breeding or non-breeding populations, breeding or wintering ranges.
- Green list species have a favourable conservation status.

A total of 247 species were considered, of these there are 67 species on the red list, 96 on the Amber list, 81 on the Green list and three removed from the list as they no longer breed. Fifteen additional species were added to the red list and 20 species added since the previous review in 2009.

2.3.2 *Local and National Species of Principal Importance*

A number of species have been listed as Species of Principal Importance for nature conservation under Section 41 of the Natural Environment and Rural Communities (NERC Section 41) Act (2006). These lists are based upon the local and National conservation status of species, with those listed as amber or red listed BoCC likely to be included.

The local BAP priority species reflects the national list.

2.3.3 *Species Richness*

The geographical importance of a bird assemblage has been categorised by Fuller in 1980. This provides thresholds for Local, County, Regional and National importance. An additional District level has been added in line with CIEEM guidelines.

Table 1: Regional Importance of Bird Assemblages

Geographical Importance	Number of Species (taken and adapted from Fuller, 1980)
Local	<25
District	25-49
County	50-69
Regional	70-84
National	>85

2.3.4 *Protected Site Selection Criteria*

European Importance

SPAs are designated for their importance for birds on a European scale, these sites must demonstrate that they support internationally important numbers of bird species, which, in most cases, is related to overwintering species.

National Importance

The Guidelines for the Selection of Biological SSSIs for birds (Drewitt *et al*, 2020), provides thresholds for determining if assemblages may have a National Importance. It states “Localities which regularly support 1% or more of the total British non-breeding population of any native species in any season and non-breeding waterbird assemblages of over 20,000 individuals will qualify for SSSI selection”.

Regional Importance

The East Riding of Yorkshire Local Wildlife Site Selection Criteria (Fraser *et al*, 2003) stipulates four categories related to breeding bird assemblages.

B1: Any site that supports 0.5% of the UK breeding population of a bird.

B3: Any site that supports a population of a rare breeding bird species in the East Riding.

B4: Any site that supports a nesting colony of the following species which reaches the population threshold (number of pairs) listed.

B5: Any site that supports a significant assemblage of breeding birds in the following habitats: Wet grassland, Open water and margins, Woodland.

Regional Status

The following table provides the abundance codes for birds in Yorkshire, taken from the Yorkshire Bird Report 2018/19 (Dobbs, 2022). This list is referenced within the results tables in the Results section of this report.

Table 3: Abundance codes for Yorkshire (Dobbs, 2022)

Code	Abundance status	Criteria
A	Abundant	More than 50,000 records a year
C	Common	More than 10,000 records a year
FC	Fairly common	More than 1,000 records a year
U	Uncommon	101-1,000 individuals each year in past 10 years
S	Scarce	11-100 individuals each year in past 10 years
R	Rare	0-10 individuals each year in the past 10 years
V	Vagrant	Up to 10 records in total since records began

The Yorkshire Bird report also provides a list of 45 Rare Breeding Birds in Yorkshire which includes species such as garganey, marsh harrier, hobby, quail and little egret *Egretta garzetta*.

2.3.5 Lifespan of Data

The results and recommendations contained within this report are considered to be valid for up to two years from the date of survey, assuming that there are no significant changes to the site condition or habitat management within this period. After this period, or should the site conditions change, an update may be required in order to inform ecological constraints to development proposals and/or accompany a planning submission. Due to the refinements made to the Onshore Study Area since the first survey visit in April 2022, a further BBS effort is planned for the winter of 2023.

3 **RESULTS**

3.1 **Desk Study**

3.1.1 ***Designated Sites***

The following information outlines designated wildlife sites which lie within 1km of the BBS survey transects, these are represented geographically in Figure 2a and 2b.

Table 4: Designated sites identified during the desk study

Transect	Designated Site	Approximate direction/ distance from transects
T5	Pulfin Bog SSSI	<500m to north
	Leconfield Low Parks LWS	<500m north
	Swine Moor LWS	<1km south
	Raventhorpe Embankment LWS	Part of transect
	Driffield Road LWS	Adjacent at southern end
T8	Beverley Parks LWS	100m to south and north
	Poplar Farm Drain LWS	Immediately adjacent
	Birkhill Woods LWS	<300m north
	Jillywood Lane LWS	Immediately adjacent
T9	Weel Carr Drain LWS	Immediately adjacent
	Figham Pastures LWS	Opposite side of river to transect

Pulfin Bog SSSI

The reed bed on this site provides good habitat for breeding birds. Birds that are characteristic of this type of habitat and that are found at this SSSI site include reed bunting *Emberiza schoeniclus* and sedge warbler *Acrocephalus schoenobaenus*.

3.1.2 ***Bird Species***

Table 5 below provides a summary of the bird species records received from the biological record centre, for the three surveyed transects plus the 2km buffer. The list focuses on Birds of Conservation Concern, Schedule 1 and rare breeders in Yorkshire. It a total of 182 records of one or more individuals of 52 species, including eight Schedule 1 and three rare breeders in Yorkshire.

The full dataset is not included here but is available on request.

Colour coding denotes the status of species as follows:

- **Red text** = Red Listed Bird of Conservation Concern
- **Orange text** = Amber Listed Bird of Conservation Concern
- **Bold text** = Schedule 1 species (which may or may not be red or amber listed)
- **Underlined text** = Rare Breeding Birds in Yorkshire (Dobbs, 2022)

Table 5: Summary of bird species records within 2km of surveyed transects

Common Name	Scientific name	No. records	Most recent record	Location/s
Barn Owl	<i>Tyto alba</i>	11	2018	Beverley, Figham, Skidby, Bentley
Black Redstart	<i>Phoenicurus ochruros</i>	1	2014	Beverley
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	1	2017	Arram Carrs
Bullfinch	<i>Pyrrhula pyrrhula</i>	4	2016	Keldmarsh, Pulfin Bog, Beverley, Figham
Common Gull	<i>Larus canus</i>	2	2017	Molescroft, Arram Carrs
Cuckoo	<i>Cuculus canorus</i>	1	2006	Keldmarsh
Curlew	<i>Numenius arquata</i>	1	2011	Pulfin Bog
Dunnock	<i>Prunella modularis</i>	5	2011	Keldmarsh, Beverley Barracks Disused Pit
Grasshopper Warbler	<i>Locustella naevia</i>	3	2012	Figham
Green Sandpiper	<i>Tringa ochropus</i>	1	2007	Figham Pastures
Greenfinch	<i>Chloris chloris</i>	4	2015	Keldmarsh, Pulfin Bog, Beverley
Grey Partridge	<i>Perdix perdix</i>	3	2012	Beverley
Greylag Goose	<i>Anser anser</i>	1	2009	Arram Carrs
Hen Harrier	<i>Circus cyaneus</i>	1	2015	Figham
Herring Gull	<i>Larus argentatus</i>	1	2007	Woodhill Path, Cottingham
House Martin	<i>Delichon urbicum</i>	1	2009	Pulfin Bog
House Sparrow	<i>Passer domesticus</i>	2	2006	Orchard Road, Skidby
Kestrel	<i>Falco tinnunculus</i>	9	2019	Beverley, Skidby, Risby, Swine Moor, Bentley
Kingfisher	<i>Alcedo atthis</i>	1	2016	Beverley
Lapwing	<i>Vanellus vanellus</i>	7	2018	Figham Pastures, Swine Moor, Arram Carrs, Beverley
Linnet	<i>Linaria cannabina</i>	1	2015	Figham
Little Egret	<i>Egretta garzetta</i>	5	2019	Swine Moor, Arram, Beverley
<u>Little Ringed Plover</u>	<u><i>Charadrius dubius</i></u>	2	2018	Swine Moor, Beverley
Mallard	<i>Anas platyrhynchos</i>	6	2011	Keldmarsh, Risby Park, Arram Park, Keldmarsh
Mistle Thrush	<i>Turdus viscivorus</i>	1	2006	Keldmarsh

Moorhen	<i>Gallinula chloropus</i>	8	2011	Risby Park, Fishpond Wood, Arram Carrs, Keldmarsh, Pulfin Bog
Marsh Harrier	Migrant/Resident Breeder, Passage Visitor	1	2006	Pulfin Bog
Oystercatcher	<i>Haematopus ostralegus</i>	2	2011	Pulfin Bog
Peregrine	<i>Falco peregrinus</i>	5	2017	Beverley, Swine Moor
Pink-footed Goose	<i>Anser brachyrhynchus</i>	1	2017	Bentley
Red Kite	<i>Milvus milvus</i>	1	2016	Beverley
Redshank	<i>Tringa totanus</i>	3	2018	Swine Moor, Beverley
Reed Bunting	<i>Emberiza schoeniclus</i>	3	2011	Figham Pastures, Pulfin Bog
Rook	<i>Corvus frugilegus</i>	1	2011	Pulfin Bog
Ruff	<i>Calidris pugnax</i>	1	2015	Swine Moor
Skylark	<i>Alauda arvensis</i>	4	2011	Arram Carrs, Raventhorpe Embankment, Pulfin Bog
Snipe	<i>Gallinago gallinago</i>	2	2015	Figham
Song Thrush	<i>Turdus philomelos</i>	4	2011	Keldmarsh, Risby Park, Raventhorpe Embankment
Sparrowhawk	<i>Accipiter nisus</i>	4	2016	Keldmarsh, Beverley
Starling	<i>Sturnus vulgaris</i>	1	2005	Orchard Road, Skidby
Stock Dove	<i>Columba oenas</i>	1	2019	Cottingham
Swift	<i>Apus apus</i>	38	2014	Beverley, Arram Carrs, Pulfin Bog
Tawny Owl	<i>Strix aluco</i>	2	2019	Walkington
Teal	<i>Anas crecca</i>	3	2019	Swine Moor, Beverley
Tree Sparrow	<i>Passer montanus</i>	1	2011	Pulfin Bog
Wheatear	<i>Oenanthe oenanthe</i>	1	2016	Swine Moor
Whimbrel	<i>Numenius phaeopus</i>	2	2018	Figham Pastures, Beverley
Whooper Swan	<i>Cygnus cygnus</i>	1	2017	Beverley
Willow Warbler	<i>Phylloscopus trochilus</i>	3	2012	Bygot Wood Lane, Leconfield, Pulfin Bog
Wren	<i>Troglodytes troglodytes</i>	9	2011	Beverley Barracks, Keldmarsh, Pulfin Bog

Yellow Wagtail	<i>Motacilla flava</i>	1	2015	Swine Moor
Yellowhammer	<i>Emberiza citrinella</i>	4	2009	Figham Pastures, Meaux, Arram Carrs

3.2 Breeding Bird Survey

Across all of the survey areas, and survey visits, a total of 83 species were recorded, this included 16 red listed, 31 amber listed species and six Schedule 1 species.

A summary of the Birds of Conservation Concern, and Schedule 1 species are provided below, full species lists can be found in Appendix D, and results provided in the figures presented in Appendix E. Scientific names of species mentioned in the text are provided in the respective results table for each surveyed transect.

Table 6 provides an overview of the diversity of assemblages, numbers of Birds of Conservation Concern and Schedule 1 species for each Transect. The transect length has also been included as this can influence the diversity of species encountered. When comparing the three transects, T5 and T8 recorded a similar number of species, with an average of 10.3 and 10.6 species per 1km length of transect. In comparison, T9 provided a slightly lower number of species (7.6). This does not take account of the abundance of each of the species and should therefore only be taken as an indication of the value of the habitats along/adjacent to the transect.

Table 6 Summary of Results for Transects

Transect	Total Species	Transect length	Confirmed breeders	Probable breeders	No. Red Listed	No. Amber Listed	No. Sch 1
5	74	7.2	13	18	14	26	5
8	62	5.8	19	13	12	22	3
9	68	8.9	19	12	14	25	2

3.2.1 Transect 5

The below paragraphs provide a summary of the habitats found adjacent to the transect in order to provide a context for the results. A summary of the results is provided below and discussed in more detail in Section 4 Evaluation.

Habitats

Transect 5 started adjacent to the River Hull, on the west side, the first section included a small broad-leaved woodland. The transect then travelled briefly northward, following the river, before continuing in a westerly direction through arable farmland. The route then continued in a southerly direction and briefly passed through a residential area to the north of Beverley before following the Ravenbank Embankment LWS, also known as the Hudson Way, which is a scrub-lined disused railway track with arable fields either side, although there were not clear views of these along the full length.

Results

Seventy-four species were recorded from Transect 5 across the five survey visits. This included 14 red listed and 26 amber listed species, and five Schedule 1 species; barn owl, hobby, marsh harrier, red kite and kingfisher. Abundant and common Yorkshire breeding species represented 45% of the assemblage recorded. The majority of rare and scarce species recorded were non-breeding, with exception of three possible breeders; wheatear, Cetti's warbler and hobby (the latter two species Schedule 1).

Within the assemblage recorded, 17 were considered to be non-breeding species which were either passage/migrants or summering birds. In some cases, it is possible that the species were breeding in the near vicinity of the transect area, but sufficient evidence could not be collected to confirm this from the transect line.

Thirteen species were confirmed as breeding, including amber listed dunnoek, kestrel, mallard, reed bunting, whitethroat and wood pigeon, and red listed starling. Red listed greenfinch, house sparrow, linnet, lapwing, skylark and yellowhammer were categorised as probable breeders, with a further five amber listed species also within this category.

Table 7 below provides details of the Birds of Conservation Concern (red and amber text respectively), Schedule 1 species (bold text) and Rare Breeders in Yorkshire (underlined text) recorded, for full results see the Appendices.

Table 7 Summary of Results for Transect 5

Common Name	Scientific Name	National Status	Yorkshire breeding status	Site Breeding Results	
				Classifying behaviour	Breeding Category
Barn Owl	<i>Tyto alba</i>	Resident Breeder	U	H	PO
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	M/U	NB
Bullfinch	<i>Pyrrhula pyrrhula</i>	Resident Breeder, Scarce Visitor	U	H	PO
Cetti's Warbler	<i>Cettia cetti</i>	Resident Breeder, Passage Visitor	S	S	PO
Common Gull	<i>Larus canus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	R	U	NB
Common Tern	<i>Sterna hirundo</i>	Migrant Breeder, Passage Visitor	S	U	NB
Corn Bunting	<i>Emberiza calandra</i>	Resident Breeder, Passage Visitor	U	S	PO
Dunnoek	<i>Prunella modularis</i>	Resident Breeder, Passage/Winter Visitor	C	FL	C
Gadwall	<i>Mareca strepera</i>	Migrant/Resident Breeder, Winter Visitor	U	P	PR
Greenfinch	<i>Chloris chloris</i>	Resident Breeder, Winter Visitor	C	T	PR

Greenshank	<i>Tringa nebularia</i>	Migrant/Resident Breeder, Passage/Winter Visitor	-	M/U	NB
Grey Partridge	<i>Perdix perdix</i>	Resident/Introduced Breeder	FC	H	PO
Greylag Goose	<i>Anser anser</i>	Introduced/Resident Breeder, Winter Migrant	FC (Feral)	P	PR
Herring Gull	<i>Larus argentatus</i>	Resident Breeder, Passage/Winter Visitor	C	U	NB
Hobby	<u>Falco subbuteo</u>	<u>Migrant Breeder, Passage Visitor</u>	S	H	PO
House Martin	<i>Delichon urbicum</i>	Migrant Breeder, Passage Visitor	C	F	NB
House Sparrow	<i>Passer domesticus</i>	Resident Breeder	A	T	PR
Kestrel	<i>Falco tinnunculus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	FC	FL	C
Kingfisher	<i>Alcedo atthis</i>	Migrant/Resident Breeder	U-S	H	PO
Lapwing	<i>Vanellus vanellus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	U	P	PR
Lesser Black- backed Gull	<i>Larus fuscus</i>	Migrant/Resident Breeder, Passage Visitor	U	U	NB
Linnet	<i>Linaria cannabina</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	P	PR
Mallard	<i>Anas platyrhynchos</i>	Introduced/Resident Breeder, Winter Visitor	FC	FL	C
<u>Marsh Harrier</u>	<u>Circus aeruginosus</u>	<u>Migrant/Resident Breeder, Passage Visitor</u>	S	UH	NB
Meadow Pipit	<i>Anthus pratensis</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	S	PO
Moorhen	<i>Gallinula chloropus</i>	Resident Breeder, Winter Visitor	C-A	H	PO
Red Kite	<i>Milvus milvus</i>	Resident/Introduced Breeder, Passage Visitor	S	F	NB
Reed Bunting	<i>Emberiza schoeniclus</i>	Resident Breeder, Passage/Winter Visitor	FC	FL	C
Rook	<i>Corvus frugilegus</i>	Resident Breeder, Winter Visitor	A	H	PO
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	Migrant Breeder, Passage Visitor	FC	S	PO
Skylark	<i>Alauda arvensis</i>	Resident Breeder, Passage/Winter Visitor	C	P/T	PR
Snipe	<i>Gallinago gallinago</i>	Migrant/Resident Breeder, Passage/Winter Visitor	S	M	NB
Song Thrush	<i>Turdus philomelos</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	H	PO
Sparrowhawk	<i>Accipiter nisus</i>	Resident Breeder, Passage/Winter Visitor	FC	H	PO
Starling	<i>Sturnus vulgaris</i>	Resident Breeder, Passage/Winter Visitor	A	ON/FL	C

Stock Dove	<i>Columba oenas</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR
Swift	<i>Apus apus</i>	Migrant Breeder, Passage Visitor	C	F	NB
Tree Sparrow	<i>Passer montanus</i>	Resident Breeder, Passage Visitor	U	H	PO
Wheatear	<i>Oenanthe oenanthe</i>	Migrant Breeder, Passage Visitor	S	H	PO
Whitethroat	<i>Sylvia communis</i>	Migrant Breeder, Passage Visitor	FC-C	FL	C
Willow Warbler	<i>Phylloscopus trochilus</i>	Migrant Breeder, Passage Visitor	C-A	S	PR
Woodpigeon	<i>Columba palumbus</i>	Resident Breeder, Winter Visitor	A	FL	C
Wren	<i>Troglodytes troglodytes</i>	Resident Breeder, Passage/Winter Visitor	A	T	PR
Yellow Wagtail	<i>Motacilla flava</i>	Migrant Breeder, Passage Visitor	U	S/H	PO
Yellowhammer	<i>Emberiza citrinella</i>	Resident Breeder, Passage/Winter Visitor	FC	S/P	PR

3.2.2 *Transect 8*

The below paragraphs provide a summary of the habitats found adjacent to the transect in order to provide a context for the results. A summary of the results is provided below and discussed in more detail in Section 4 Evaluation.

Habitats

Transect 8 formed a loop, to the west of the village of Wawne, approximately 4.5km to the south-east of Beverley. It firstly travelled in a northerly direction along the eastern bank of the River Hull for approximately 2.5-3km. It passed through primarily arable farmland, with a waterbody adjacent to the route, by the river, and a small number of small broad-leaved plantation woodlands and farms also adjacent or near to the route.

Results

Sixty-two species were recorded from Transect 8 across the five survey visits. This included 12 red listed and 22 amber listed species, and three Schedule 1 species; barn owl, Cetti's warbler and kingfisher. Abundant and common Yorkshire breeding species represented 55% of the assemblage recorded. Of the four rare and scarce species recorded, three were non-breeding, and Cetti's warbler was a possible breeder.

Within the assemblage recorded, eight were considered to be non-breeding species which were either passage/migrants or summering birds. In some cases, it is possible that the species were breeding in the near vicinity of the transect area, but sufficient evidence could not be collected to confirm this from the transect line.

Nineteen species were confirmed as breeding, including red listed starling, greenfinch, house martin and yellowhammer, and amber listed kestrel, mallard, reed bunting, whitethroat and wood pigeon. Red listed house sparrow, linnet and skylark and were categorised as probable breeders, with a further five amber listed species also within this category.

Table 8 below provides details of the Birds of Conservation Concern (red and amber text respectively), Schedule 1 species (bold text) and Rare Breeders in Yorkshire (underlined text) recorded, for full results see the Appendices.

Table 8 Summary of Results for Transect 8

Common Name	Scientific Name	National Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Barn Owl	<i>Tyto alba</i>	Resident Breeder	U	H	PO
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	M/U	NB
Bullfinch	<i>Pyrrhula pyrrhula</i>	Resident Breeder, Scarce Visitor	U	H	PO

Cetti's Warbler	<i>Cettia cetti</i>	Resident Breeder, Passage Visitor	S	S	PO
Common Gull	<i>Larus canus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	R	M/U	NB
Dunnock	<i>Prunella modularis</i>	Resident Breeder, Passage/Winter Visitor	C	T	PR
Great Black-backed Gull	<i>Larus marinus</i>	Resident Breeder, Winter Visitor	R	M/U	NB
Greenfinch	<i>Chloris chloris</i>	Resident Breeder, Winter Visitor	C	FL	C
Greylag Goose	<i>Anser anser</i>	Introduced/Resident Breeder, Winter Migrant	FC (Feral)	P	PR
Herring Gull	<i>Larus argentatus</i>	Resident Breeder, Passage/Winter Visitor	C	U	NB
House Martin	<i>Delichon urbicum</i>	Migrant Breeder, Passage Visitor	C	FL	C
House Sparrow	<i>Passer domesticus</i>	Resident Breeder	A	P	PR
Kestrel	<i>Falco tinnunculus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	FC	FL	C
Kingfisher	<i>Alcedo atthis</i>	Migrant/Resident Breeder	U-S	H	PO
Lesser Black-backed Gull	<i>Larus fuscus</i>	Migrant/Resident Breeder, Passage Visitor	U	U	NB
Linnet	<i>Linaria cannabina</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	S/P	PR
Mallard	<i>Anas platyrhynchos</i>	Introduced/Resident Breeder, Winter Visitor	FC	FL	C
Meadow Pipit	<i>Anthus pratensis</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	H	PO
Mistle Thrush	<i>Turdus viscivorus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	FC	S	PO
Moorhen	<i>Gallinula chloropus</i>	Resident Breeder, Winter Visitor	C-A	H	PO
Reed Bunting	<i>Emberiza schoeniclus</i>	Resident Breeder, Passage/Winter Visitor	FC	FL	C
Rook	<i>Corvus frugilegus</i>	Resident Breeder, Winter Visitor	A	H	PO
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	Migrant Breeder, Passage Visitor	FC	S	PO
Shelduck	<i>Tadorna tadorna</i>	Migrant/Resident Breeder, Winter Visitor	U	P	PR
Skylark	<i>Alauda arvensis</i>	Resident Breeder, Passage/Winter Visitor	C	T	PR
Song Thrush	<i>Turdus philomelos</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	S	PO
Sparrowhawk	<i>Accipiter nisus</i>	Resident Breeder, Passage/Winter Visitor	FC	H	PO
Starling	<i>Sturnus vulgaris</i>	Resident Breeder, Passage/Winter Visitor	A	FL	C
Stock Dove	<i>Columba oenas</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR

Swift	<i>Apus apus</i>	Migrant Breeder, Passage Visitor	C	F	NB
Tree Sparrow	<i>Passer montanus</i>	Resident Breeder, Passage Visitor	U	S	PO
Whitethroat	<i>Sylvia communis</i>	Migrant Breeder, Passage Visitor	FC-C	FL	C
Willow Warbler	<i>Phylloscopus trochilus</i>	Migrant Breeder, Passage Visitor	C-A	S	PO
Woodpigeon	<i>Columba palumbus</i>	Resident Breeder, Winter Visitor	A	FL	C
Wren	<i>Troglodytes troglodytes</i>	Resident Breeder, Passage/Winter Visitor	A	T	PR
Yellow Wagtail	<i>Motacilla flava</i>	Migrant Breeder, Passage Visitor	U	H	PO
Yellowhammer	<i>Emberiza citrinella</i>	Resident Breeder, Passage/Winter Visitor	FC	FL	C

3.2.3 *Transect 9*

The below paragraphs provide a summary of the habitats found adjacent to the transect in order to provide a context for the results. A summary of the results are provided below and discussed in more detail in Section 4 Evaluation.

Habitats

Transect 9 started at Woodmansey where it travelled in a south-westerly direction through arable fields and Beverley Parks LNR. It crossed the A1079, travelling southwards before continuing in a westerly direction adjacent to the Jillywood Lane LWS, which was a watercourse with adjacent scrub and woodland.

Results

Sixty-eight species were recorded from Transect 9 across the five survey visits. This included 14 red listed and 25 amber listed species, and two Schedule 1 species; barn owl and marsh harrier. Abundant and common Yorkshire breeding species represented 50% of the assemblage recorded. Of the seven rare and scarce species recorded, six were non-breeding, and quail was a possible breeder.

Within the assemblage recorded, 14 were considered to be non-breeding species which were either passage/migrants or summering birds. In some cases, it is possible that the species were breeding in the near vicinity of the transect area, but sufficient evidence could not be collected to confirm this from the transect line.

Nineteen species were confirmed as breeding, including red listed starling and linnet, and amber listed kestrel, mallard, meadow pipit, rook, whitethroat and wood pigeon. Red listed house sparrow, yellowhammer and skylark, and Schedule 1 listed barn owl, were categorised as probable breeders, with a further six amber listed species also within this category.

Table 9 below provides details of the Birds of Conservation Concern (red and amber text respectively), Schedule 1 species (bold text) and Rare Breeders in Yorkshire (underlined text) recorded, for full results see the Appendices.

Table 9 Summary of Results for Transect 9

Common Name	Scientific Name	National Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Barn Owl	<i>Tyto alba</i>	Resident Breeder	U	N	PR
Bullfinch	<i>Pyrrhula pyrrhula</i>	Resident Breeder, Scarce Visitor	U	H	PO
Common Gull	<i>Larus canus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	R	U/M	NB
Common Tern	<i>Sterna hirundo</i>	Migrant Breeder, Passage Visitor	S	U/M	NB
Curlew	<i>Numenius arquata</i>	Migrant/Resident Breeder, Passage/Winter Visitor	U	F	NB

Dunnock	<i>Prunella modularis</i>	Resident Breeder, Passage/Winter Visitor	C	T	PR
<u>Garganey</u>	<u><i>Spatula querquedula</i></u>	<u>Migrant Breeder, Passage Visitor</u>	R	F	NB
Great Black-backed Gull	<i>Larus marinus</i>	Resident Breeder, Winter Visitor	R	U/M	NB
Greenfinch	<i>Chloris chloris</i>	Resident Breeder, Winter Visitor	C	S	PO
Grey Partridge	<i>Perdix perdix</i>	Resident/Introduced Breeder	FC	H	PO
Greylag Goose	<i>Anser anser</i>	Introduced/Resident Breeder, Winter Migrant	FC (Feral)	P	PR
Herring Gull	<i>Larus argentatus</i>	Resident Breeder, Passage/Winter Visitor	C	U/M	NB
House Martin	<i>Delichon urbicum</i>	Migrant Breeder, Passage Visitor	C	F	NB
House Sparrow	<i>Passer domesticus</i>	Resident Breeder	A	T	PR
Kestrel	<i>Falco tinnunculus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	FC	FL	C
Lapwing	<i>Vanellus vanellus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	U	H	PO
Lesser Black-backed Gull	<i>Larus fuscus</i>	Migrant/Resident Breeder, Passage Visitor	U	U/M	NB
Linnet	<i>Linaria cannabina</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	FL	C
Mallard	<i>Anas platyrhynchos</i>	Introduced/Resident Breeder, Winter Visitor	FC	FL	C
<u>Marsh Harrier</u>	<u><i>Circus aeruginosus</i></u>	<u>Migrant/Resident Breeder, Passage Visitor</u>	S	F	NB
Meadow Pipit	<i>Anthus pratensis</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	FL	C
Moorhen	<i>Gallinula chloropus</i>	Resident Breeder, Winter Visitor	C-A	H	PO
<u>Quail</u>	<u><i>Coturnix coturnix</i></u>	<u>Migrant Breeder</u>	S	S	PO
Reed Bunting	<i>Emberiza schoeniclus</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR
Rook	<i>Corvus frugilegus</i>	Resident Breeder, Winter Visitor	A	FL	C
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	Migrant Breeder, Passage Visitor	FC	S	PO
Skylark	<i>Alauda arvensis</i>	Resident Breeder, Passage/Winter Visitor	C	T	PR
Song Thrush	<i>Turdus philomelos</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	S	PO
Sparrowhawk	<i>Accipiter nisus</i>	Resident Breeder, Passage/Winter Visitor	FC	H	PO
Starling	<i>Sturnus vulgaris</i>	Resident Breeder, Passage/Winter Visitor	A	ON	C
Stock Dove	<i>Columba oenas</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR

Swift	<i>Apus apus</i>	Migrant Breeder, Passage Visitor	C	F	NB
Tree Sparrow	<i>Passer montanus</i>	Resident Breeder, Passage Visitor	U	S	PO
Wheatear	<i>Oenanthe oenanthe</i>	Migrant Breeder, Passage Visitor	S	M	NB
Whitethroat	<i>Sylvia communis</i>	Migrant Breeder, Passage Visitor	FC-C	FL	C
Willow Warbler	<i>Phylloscopus trochilus</i>	Migrant Breeder, Passage Visitor	C-A	T	PR
Woodpigeon	<i>Columba palumbus</i>	Resident Breeder, Winter Visitor	A	FL	C
Wren	<i>Troglodytes troglodytes</i>	Resident Breeder, Passage/Winter Visitor	A	T	PR
Yellow Wagtail	<i>Motacilla flava</i>	Migrant Breeder, Passage Visitor	U	H	PO
Yellowhammer	<i>Emberiza citrinella</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR

4 EVALUATION

Whilst the total number of species, and the number/proportion of birds with conservation status provide an indication of the importance of the areas adjacent to the transect, the length of the transect has also been considered, as this could influence the number of species, and individuals, likely to be recorded. This demonstrates that the diversity of species was similar, when averaged out per 1km length of transect, between T5 and T8 but slightly lower for T9. This is most likely attributed to the less diverse habitats encountered along T9, which excluded any sections of river.

In addition, breeding categories would usually be assigned to a specific site boundary; as a survey/site boundary was not implemented for these surveys, this makes assigning breeding categories problematic, the categories should be taken to relate to the nearby general transect area.

Similarly, standard methods for evaluating the importance of bird assemblages relate to a specific site, therefore they are not as useful for a linear transect where no specific site boundary has been applied which may lead to a mis-representation of the surveyed area's assemblage's diversity. Nonetheless, the Fuller (1980) assessment method provides an indication of the value of an assemblage. In some cases, comparisons to designated site selection criteria provide useful assessment tools.

4.1 Transect 5

Records were relatively evenly distributed across the eastern section of the transect, with a concentration of records within the woodland at the start, which is considered typical as a higher diversity of species would usually be expected using woodlands, in comparison to open farmland. Species recorded were primarily woodland generalists. The scrub-lined railway line in the west of the transect provided concentrations of bird records, primarily consisting of ubiquitous species, however views in to the adjacent fields were obscured which may have resulted in an under representation of the use of these areas.

Excluding non-breeding species, the potential breeding assemblage consists of 57 species which would equate to a site of County importance; however, care should be taken when attributing the value of the survey area given that there is no defined boundary.

A number of farmland specialist species were recorded in low numbers, which included red listed grey partridge, corn bunting, tree sparrow, yellowhammer, yellow wagtail, lapwing, linnet, skylark and starling. Most of these species were recorded in low numbers of less than ten singing males/pairs, however up to 20 singing skylarks were recorded throughout the key breeding months. Larger groups of starling were recorded which were attributed to post-breeding flocks.

Five Schedule 1 species were recorded; however, breeding was not confirmed for any of these species, Cetti's warbler, barn owl, kingfisher and hobby were recorded as possible breeders, and red kite was recorded as not breeding.

4.2 Transect 8

The locations of bird records were relatively evenly distributed throughout the transect, with concentrations along linear features, in particular the eastern section following a watercourse with scrub. Records of birds using open habitats within the fields were minimal, which included a general lack of typical species such as skylark.

When excluding non-breeding species, this leaves a breeding assemblage of 54 species, equating to a site of County importance.

A low number of farmland specialist species were recorded, which included red listed skylark, tree sparrow, yellowhammer and yellow wagtail. These were all recorded in low numbers, mostly single individuals/records, with the exception of skylark where 8-13 singing males were recorded in the peak months of April to June.

The three Schedule 1 species were recorded as possible breeders, as breeding behaviour was not noted.

4.3 Transect 9

Concentrations of records were located on the western section of the transect within the small residential area of Weel, and a nearby collection of waterbodies. Elsewhere along the route records were not concentrated in any obvious locations, with the exception of small copses.

A total of 54 species were included in the breeding assemblage, when excluding non-breeding species, which would equate to a site of County importance, however, as with the other transects, this does not reflect the survey area's assemblage accurately due to its linear nature.

Eight red-listed farmland specialist species were recorded from Transect 9, these were grey partridge, lapwing, linnet, starling, skylark, tree sparrow, yellowhammer and yellow wagtail. As with the other transects, these were recorded in low numbers.

Schedule 1 species barn owl was considered to be probably breeding due to a record of a bird observed entering a potential nest site. Other Schedule 1 or rare breeding species were either non-breeding or possible breeders.

5 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

The three transect areas travelled through relatively similar habitat types, consisting primarily of vast open arable fields, with varying quality of hedgerows, the River Hull and/or other water courses and wooded copses. The majority of species recorded were ubiquitous, with the exception of a small number of Schedule 1, rare or scarce breeding species in Yorkshire. These were, however, not confirmed as breeding. Farmland specialists were recorded, which would usually indicate that the farmland offered optimal habitat for birds generally, however, whilst species included quail, grey partridge, yellowhammer, corn bunting and yellow wagtail, these were recorded at low densities.

5.2 Recommendations

It is recommended that breeding bird surveys are completed for the confirmed refined Onshore Survey Area in 2023, as T5 has already been completed with acceptable coverage, it is not considered necessary to repeat this survey, and T9 is no longer within the Onshore Survey Area so will not need to be repeated. All other updated proposed transects should be surveyed, preferably by securing private access to enable appropriate coverage.

Where access cannot be secured, areas will need to be surveyed from the nearest public access, however, it should be noted that in some areas of the onshore survey area there are very limited PRow available which may impact upon the results of the survey.

Further survey work may be recommended if there are species or concentrations of species which are particularly important and/or at risk of significant impact, this may include Schedule 1 species.

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APPENDICES

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APPENDIX A: Protected and Priority Species

Legal protection is afforded to particular habitats and species (as well as designated sites), see Appendix B. The legislation, and the habitats and species listed, vary between the different jurisdictions. Certain habitats and species are also considered to have some level of nature conservation importance, due to factors such as their rarity, vulnerability or declining population/status. This document uses the term 'priority habitats' and 'priority species', as they are those which should be considered as priorities for conservation (it should not be confused with priority habitats and species as listed in the EU Habitats Directive). Priority habitats and species are defined as those which are:

- 1) listed as a national priority for conservation (such as those listed as habitats and species of principal importance for the conservation of biodiversity);
- 2) listed as a local priority for conservation, for example in the relevant local Biodiversity Action Plan (BAP);
- 3) Red Listed using International Union for the Conservation of Nature (IUCN) criteria (e.g. in an all-Ireland Red List, in one of the UK Species Status Project reviews, in the Species of Conservation Concern Red List, Birds of Conservation Concern in Wales, or BWI/ RSPB Red List for Ireland and Northern Ireland (Birds of Conservation Concern in Ireland 2014 to 2019) or, where a more recent assessment of the taxonomic group has not yet been undertaken, listed in a Red Data Book);
- 4) listed as Near Threatened or Amber Listed e.g. in an all-Ireland Red List, in one of the UK Species Status Project reviews, in Birds of Conservation Concern in Wales, in the Species of Conservation Concern Amber List or BirdWatch Ireland (BWI)/RSPB Amber List for Ireland and Northern Ireland (Birds of Conservation Concern in Ireland 2014 to 2019);
- 5) listed as a Nationally Rare or Nationally Scarce species (e.g. in one of the Species Status Project reviews) or listed as a Nationally Notable species where a more recent assessment of the taxonomic group has not yet been undertaken; and/or
- 6) endemic to a country or geographic location (it is appropriate to recognise endemic sub-species, phenotypes, or cultural behaviours of a population that are unique to a particular place).

Most protected species are also considered to be priority species, although there are some exceptions. There are numerous priority habitats and species which do not receive any legal protection.

Note that the terms 'priority habitat' and 'priority species' used in this document differ from the following uses of the same terms:

- a) These terms were previously used to denote those habitats and species afforded the highest level of priority for conservation under the UK BAP; this has been superseded by the lists of habitats and species of principal importance for the conservation of biodiversity in England under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006, Section 7 of the Environment (Wales) Act 2016, or their equivalents in Scotland

(Nature Conservation (Scotland) Act 2004, Scotland's Biodiversity Strategy and the Scottish Biodiversity List¹⁵) and Ireland (Actions for Biodiversity – Ireland's National Biodiversity Plan 2017 -2021¹⁶; and Valuing Nature – A Biodiversity Strategy for Northern Ireland to 2020).

- b) The terms 'Priority Natural Habitat Type' and 'Priority Species' are used to denote specific lists of habitats and species under The Conservation of Habitats and Species Regulations 2017; these are defined in Articles 1(d) and 1(h) respectively of the Habitats Directive.

APPENDIX B: Relevant Legislation

The following text provides information on the key legislation, which is applicable to this survey.

The main wildlife legislation in the UK is as follows:

The sections of UK legislation considered to be of relevance include:

The Conservation (Natural Habitats, and c.) Regulations 2017 (as amended)

This transposes the Habitats Directive into national law. The Regulations provide for the designation and protection of 'European sites', and the protection of 'European protected species'.

The Wildlife and Countryside Act 1981 (as amended) (WCA)

This consolidates and amends existing national legislation to implement the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) and Council Directive 79/409/EEC on the Conservation of Wild Birds (Birds Directive) in Great Britain.

The Countryside and Rights of Way Act 2000 (CRoW)

This act strengthens wildlife enforcement legislation.

The Protection of Badgers Act 1992

Species-Specific Legislation

Species specific legislation is provided in the Table below:

Species-Specific Wildlife Legislation

Feature/Species	Legislation	It is an offence to:
Breeding birds	Wildlife and Countryside Act 1981 (as amended). Countryside and Rights of Way Act 2000.	Kill; Injure; Take; any wild bird, their eggs or nest (with the exception of those on Sch. 2).
Specially protected birds	Sch. 1 Wildlife and Countryside Act 1981 (as amended).	As above but includes: Disturbing birds at their nest, or their dependent young.

In addition, species and habitats listed on the UK Post-2010 Biodiversity Framework (formally the UK BAP) are also considered. Details on these species and habitats can be found at: <http://jncc.defra.gov.uk/page-5705>.

Protected Sites

A network of protected sites, at varying levels, have been put in place across the UK. Further details are provided below;

International importance

Natura 2000

Natura 2000 is the name of the European Union-wide network of nature conservation sites established under the EC Habitats and Birds Directives. This network will comprise Special Areas of Conservation (SACs) and SPAs.

Special Areas of Conservation (SAC)

SACs are designated under the EC Habitats Directive. The Directive applies to the UK and the overseas territory of Gibraltar. SACs are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs in terrestrial areas and territorial marine waters out to 12 nautical miles are designated under the Conservation (Natural Habitats, &c.) Regulations 1994 (as amended). New and/or amended Habitats Regulations are shortly to be introduced to provide a mechanism for the designation of SACs and SPAs in UK offshore waters (from 12-200 nm).

National importance

SSSI

The SSSI series has developed since 1949 as the national suite of sites providing statutory protection for the best examples of the UK's flora, fauna, or geological or physiographical features. Most SSSIs are privately-owned or managed; others are owned or managed by public bodies or non-government organisations. The SSSIs designation may extend into intertidal areas out to the jurisdictional limit of local authorities, generally Mean Low Water in England and Northern Ireland; Mean Low Water of Spring tides in Scotland. In Wales, the limit is Mean Low Water for SSSIs notified before 2002, and, for more recent notifications, the limit is Lowest Astronomical Tides, where the features of interest extend down to LAT. There is no provision for marine SSSIs beyond low water mark. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs have been renotified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and the Nature Conservation (Scotland) Act 2004.

Regional/local importance

Wildlife Sites

Local authorities for any given area may designate certain areas as being of local conservation interest. The criteria for inclusion, and the level of protection provided, if any, may vary between areas. Most individual counties have a similar scheme, although they do vary. These sites, which may be given various titles such as 'Listed Wildlife Sites' (LWS), 'County Wildlife

Sites' (CWS), 'Local Nature Conservation Sites' (LNCS), 'Sites of Importance for Nature Conservation' (SINCs), or Sites of Nature Conservation Importance' (SNCIs), together with statutory designations, are defined in local and structure plans under the Town and Country Planning system and are a material consideration when planning applications are being determined.

APPENDIX C: Categories of Breeding Bird Evidence

Class	Category of Evidence	Code
Non-breeding	Flying over	F
	Species observed but suspected to be still on migration	M
	Species observed but suspected to be summering non-breeder	U
	Observed in unsuitable nesting habitat	UH
Possible Breeding	Species observed in breeding season in possible nesting habitat	H
	Singing male present (or breeding calls heard) in breeding season in suitable breeding habitat	S
Probable Breeding	Pairs observed in suitable nesting habitat in breeding season	P
	Permanent territory presumed through registration of territorial behaviour (song etc) on at least two different days, a week apart, at the same place, or many individuals on one day.	T
	Display and courtship (judged to be near potential breeding habitat).	D
	Visiting probable nest site	N
	Agitated behaviour or anxiety calls from adults, suggesting probably presence of nest or young nearby	A
	Brood patch on adult examined in the hand, suggesting incubation	I
	Building nest or excavating nest-hole	B
Confirmed Breeding	Distraction display or injury feigning	DD
	Used nest or egg shells found (occupied or laid within the survey period)	UN
	Recently fledged young (nidicolous species) or downy young (nidifugous species). Careful consideration should be given to the likely provenance of any fledged juvenile capable of significant geographical movement. Evidence of dependency on adults (e.g. feeding) is helpful.	FL
	Adults entering or leaving nest site in circumstances indicating occupied nest or adult sitting on nest	ON
	Adults carrying food for young or faecal sacs	FF
	Nests containing eggs	NE
	Nest with young seen or heard	NY

EOAC and BTO Guidelines (combined)

APPENDIX D: Full species lists

Table 10 Full Results for Transect 5

Common Name	Scientific Name	National Status	Yorkshire breeding status	Site Breeding Results	
				Classifying behaviour	Breeding Category
Barn Owl	<i>Tyto alba</i>	Resident Breeder	U	H	PO
Blackbird	<i>Turdus merula</i>	Migrant/Resident Breeder, Passage/Winter Visitor	A	T	PR
Blackcap	<i>Sylvia atricapilla</i>	Migrant Breeder, Passage/Winter Visitor	C	FL	C
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	M/U	NB
Blue Tit	<i>Cyanistes caeruleus</i>	Resident Breeder, Winter Visitor	A	FL	C
Bullfinch	<i>Pyrrhula pyrrhula</i>	Resident Breeder, Scarce Visitor	U	H	PO
Buzzard	<i>Buteo buteo</i>	Resident Breeder, Passage/Winter Visitor	FC	H	PO
Carrion Crow	<i>Corvus corone</i>	Resident Breeder, Winter Visitor	A	H	PO
Cetti's Warbler	<i>Cettia cetti</i>	Resident Breeder, Passage Visitor	S	S	PO
Chaffinch	<i>Fringilla coelebs</i>	Resident Breeder, Passage/Winter Visitor	A	T	PR
Chiffchaff	<i>Phylloscopus collybita</i>	Migrant Breeder, Passage/Winter Visitor	C	FL	C
Coal Tit	<i>Periparus ater</i>	Resident Breeder	C	S	PO
Collared Dove	<i>Streptopelia decaocto</i>	Resident Breeder	C	S	PO
Common Gull	<i>Larus canus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	R	U	NB
Common Tern	<i>Sterna hirundo</i>	Migrant Breeder, Passage Visitor	S	U	NB
Cormorant	<i>Phalacrocorax carbo</i>	Migrant/Resident Breeder, Passage/Winter Visitor	S	F	NB
Corn Bunting	<i>Emberiza calandra</i>	Resident Breeder, Passage Visitor	U	S	PO
Dunnoek	<i>Prunella modularis</i>	Resident Breeder, Passage/Winter Visitor	C	FL	C
Gadwall	<i>Mareca strepera</i>	Migrant/Resident Breeder, Winter Visitor	U	P	PR
Goldcrest	<i>Regulus regulus</i>	Resident Breeder, Passage/Winter Visitor	FC	H	PO
Golden Plover	<i>Pluvialis apricaria</i>	Migrant/Resident Breeder, Passage/Winter Visitor	U	M/U	NB
Goldfinch	<i>Carduelis carduelis</i>	Migrant/Resident Breeder	C	T	PR

Common Name	Scientific Name	National Status	Yorkshire breeding status	Site Breeding Results	
				Classifying behaviour	Breeding Category
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Resident Breeder, Scarce Visitor	FC	P	PR
Great Tit	<i>Parus major</i>	Resident Breeder, Winter Visitor	A	P	PR
Green Woodpecker	<i>Picus viridis</i>	Resident Breeder	U	H	PO
Greenfinch	<i>Chloris chloris</i>	Resident Breeder, Winter Visitor	C	T	PR
Greenshank	<i>Tringa nebularia</i>	Migrant/Resident Breeder, Passage/Winter Visitor	-	M/U	NB
Grey Heron	<i>Ardea cinerea</i>	Resident Breeder, Winter Visitor	U	U	NB
Grey Partridge	<i>Perdix perdix</i>	Resident/Introduced Breeder	FC	H	PO
Greylag Goose	<i>Anser anser</i>	Introduced/Resident Breeder, Winter Migrant	FC (Feral)	P	PR
Herring Gull	<i>Larus argentatus</i>	Resident Breeder, Passage/Winter Visitor	C	U	NB
Hobby	<i>Falco subbuteo</i>	Migrant Breeder, Passage Visitor	S	H	PO
House Martin	<i>Delichon urbicum</i>	Migrant Breeder, Passage Visitor	C	F	NB
House Sparrow	<i>Passer domesticus</i>	Resident Breeder	A	T	PR
Jackdaw	<i>Coloeus monedula</i>	Resident Breeder, Winter Visitor	A	H	PO
Jay	<i>Garrulus glandarius</i>	Resident Breeder	FC	H	PO
Kestrel	<i>Falco tinnunculus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	FC	FL	C
Kingfisher	<i>Alcedo atthis</i>	Migrant/Resident Breeder	U-S	H	PO
Lapwing	<i>Vanellus vanellus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	U	P	PR
Lesser Black-backed Gull	<i>Larus fuscus</i>	Migrant/Resident Breeder, Passage Visitor	U	U	NB
Lesser Whitethroat	<i>Sylvia curruca</i>	Migrant Breeder, Passage Visitor	FC-U	S	PO
Linnet	<i>Linaria cannabina</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	P	PR
Little Egret	<i>Egretta garzetta</i>	Resident Breeder, Passage Visitor	S	U	NB
Long-tailed Tit	<i>Aegithalos caudatus</i>	Resident Breeder	C	P	PR
Magpie	<i>Pica pica</i>	Resident Breeder	C	FL	C
Mallard	<i>Anas platyrhynchos</i>	Introduced/Resident Breeder, Winter Visitor	FC	FL	C

Common Name	Scientific Name	National Status	Yorkshire breeding status	Site Breeding Results	
				Classifying behaviour	Breeding Category
<u>Marsh Harrier</u>	<u><i>Circus aeruginosus</i></u>	<u>Migrant/Resident Breeder, Passage Visitor</u>	S	UH	NB
Meadow Pipit	<i>Anthus pratensis</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	S	PO
Moorhen	<i>Gallinula chloropus</i>	Resident Breeder, Winter Visitor	C-A	H	PO
Mute Swan	<i>Cygnus olor</i>	Resident/Introduced Breeder	U	P	PR
Pheasant	<i>Phasianus colchicus</i>	Introduced Breeder	C-A	FL	C
Red Kite	<i>Milvus milvus</i>	Resident/Introduced Breeder, Passage Visitor	S	F	NB
Reed Bunting	<i>Emberiza schoeniclus</i>	Resident Breeder, Passage/Winter Visitor	FC	FL	C
Reed Warbler	<i>Acrocephalus scirpaceus</i>	Migrant Breeder, Passage Visitor	U	H	PO
Robin	<i>Erithacus rubecula</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C-A	FL	C
Rook	<i>Corvus frugilegus</i>	Resident Breeder, Winter Visitor	A	H	PO
Sand Martin	<i>Riparia riparia</i>	Migrant Breeder, Passage Visitor	FC	UH	NB
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	Migrant Breeder, Passage Visitor	FC	S	PO
Skylark	<i>Alauda arvensis</i>	Resident Breeder, Passage/Winter Visitor	C	P/T	PR
Snipe	<i>Gallinago gallinago</i>	Migrant/Resident Breeder, Passage/Winter Visitor	S	M	NB
Song Thrush	<i>Turdus philomelos</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	H	PO
Sparrowhawk	<i>Accipiter nisus</i>	Resident Breeder, Passage/Winter Visitor	FC	H	PO
Starling	<i>Sturnus vulgaris</i>	Resident Breeder, Passage/Winter Visitor	A	ON/FL	C
Stock Dove	<i>Columba oenas</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR
Swallow	<i>Hirundo rustica</i>	Migrant Breeder, Passage Visitor	C	F	NB
Swift	<i>Apus apus</i>	Migrant Breeder, Passage Visitor	C	F	NB
Tree Sparrow	<i>Passer montanus</i>	Resident Breeder, Passage Visitor	U	H	PO
Wheatear	<i>Oenanthe oenanthe</i>	Migrant Breeder, Passage Visitor	S	H	PO

Common Name	Scientific Name	National Status	Yorkshire breeding status	Site Breeding Results	
				Classifying behaviour	Breeding Category
Whitethroat	<i>Sylvia communis</i>	Migrant Breeder, Passage Visitor	FC-C	FL	C
Willow Warbler	<i>Phylloscopus trochilus</i>	Migrant Breeder, Passage Visitor	C-A	S	PR
Woodpigeon	<i>Columba palumbus</i>	Resident Breeder, Winter Visitor	A	FL	C
Wren	<i>Troglodytes troglodytes</i>	Resident Breeder, Passage/Winter Visitor	A	T	PR
Yellow Wagtail	<i>Motacilla flava</i>	Migrant Breeder, Passage Visitor	U	S/H	PO
Yellowhammer	<i>Emberiza citrinella</i>	Resident Breeder, Passage/Winter Visitor	FC	S/P	PR

Table 11 Full Results for Transect 8

Common Name	Scientific Name	Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Barn Owl	<i>Tyto alba</i>	Resident Breeder	U	H	PO
Blackbird	<i>Turdus merula</i>	Migrant/Resident Breeder, Passage/Winter Visitor	A	P	PR
Blackcap	<i>Sylvia atricapilla</i>	Migrant Breeder, Passage/Winter Visitor	C	T	PR
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	M/U	NB
Blue Tit	<i>Cyanistes caeruleus</i>	Resident Breeder, Winter Visitor	A	FL	C
Bullfinch	<i>Pyrrhula pyrrhula</i>	Resident Breeder, Scarce Visitor	U	H	PO
Buzzard	<i>Buteo buteo</i>	Resident Breeder, Passage/Winter Visitor	FC	FL	C
Carrion Crow	<i>Corvus corone</i>	Resident Breeder, Winter Visitor	A	FL	C
Cetti's Warbler	<i>Cettia cetti</i>	Resident Breeder, Passage Visitor	S	S	PO
Chaffinch	<i>Fringilla coelebs</i>	Resident Breeder, Passage/Winter Visitor	A	FL	C
Chiffchaff	<i>Phylloscopus collybita</i>	Migrant Breeder, Passage/Winter Visitor	C	T	PR
Coal Tit	<i>Parus ater</i>	Resident Breeder	C	H	PO
Collared Dove	<i>Streptopelia decaocto</i>	Resident Breeder	C	P	PR

Common Name	Scientific Name	Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Common Gull	<i>Larus canus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	R	M/U	NB
Cormorant	<i>Phalacrocorax carbo</i>	Migrant/Resident Breeder, Passage/Winter Visitor	S	F	NB
Duncock	<i>Prunella modularis</i>	Resident Breeder, Passage/Winter Visitor	C	T	PR
Goldcrest	<i>Regulus regulus</i>	Resident Breeder, Passage/Winter Visitor	FC	FL	C
Goldfinch	<i>Carduelis carduelis</i>	Migrant/Resident Breeder	C	S/P	PR
Great Black-backed Gull	<i>Larus marinus</i>	Resident Breeder, Winter Visitor	R	M/U	NB
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Resident Breeder, Scarce Visitor	FC	H	PO
Great Tit	<i>Parus major</i>	Resident Breeder, Winter Visitor	A	FL	C
Green Woodpecker	<i>Picus viridis</i>	Resident Breeder	U	H	PO
Greenfinch	<i>Chloris chloris</i>	Resident Breeder, Winter Visitor	C	FL	C
Grey Heron	<i>Ardea cinerea</i>	Resident Breeder, Winter Visitor	U	U	NB
Greylag Goose	<i>Anser anser</i>	Introduced/Resident Breeder, Winter Migrant	FC (Feral)	P	PR
Herring Gull	<i>Larus argentatus</i>	Resident Breeder, Passage/Winter Visitor	C	U	NB
House Martin	<i>Delichon urbicum</i>	Migrant Breeder, Passage Visitor	C	FL	C
House Sparrow	<i>Passer domesticus</i>	Resident Breeder	A	P	PR
Jackdaw	<i>Coloeus monedula</i>	Resident Breeder, Winter Visitor	A	H	PO
Kestrel	<i>Falco tinnunculus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	FC	FL	C
Kingfisher	<i>Alcedo atthis</i>	Migrant/Resident Breeder	U-S	H	PO
Lesser Black-backed Gull	<i>Larus fuscus</i>	Migrant/Resident Breeder, Passage Visitor	U	U	NB
Lesser Whitethroat	<i>Sylvia curruca</i>	Migrant Breeder, Passage Visitor	FC-U	H/S	PO
Linnet	<i>Linaria cannabina</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	S/P	PR
Long-tailed Tit	<i>Aegithalos caudatus</i>	Resident Breeder	C	FL	C
Magpie	<i>Pica pica</i>	Resident Breeder	C	FL	C
Mallard	<i>Anas platyrhynchos</i>	Introduced/Resident Breeder, Winter Visitor	FC	FL	C

Common Name	Scientific Name	Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Meadow Pipit	<i>Anthus pratensis</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	H	PO
Mistle Thrush	<i>Turdus viscivorus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	FC	S	PO
Moorhen	<i>Gallinula chloropus</i>	Resident Breeder, Winter Visitor	C-A	H	PO
Pheasant	<i>Phasianus colchicus</i>	Introduced Breeder	C-A	H	PO
Pied Wagtail	<i>Motacilla alba</i>	Migrant/Resident Breeder, Passage Visitor	C	FL	C
Reed Bunting	<i>Emberiza schoeniclus</i>	Resident Breeder, Passage/Winter Visitor	FC	FL	C
Reed Warbler	<i>Acrocephalus scirpaceus</i>	Migrant Breeder, Passage Visitor	U	S	PO
Robin	<i>Erithacus rubecula</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C-A	FL	C
Rook	<i>Corvus frugilegus</i>	Resident Breeder, Winter Visitor	A	H	PO
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	Migrant Breeder, Passage Visitor	FC	S	PO
Shelduck	<i>Tadorna tadorna</i>	Migrant/Resident Breeder, Winter Visitor	U	P	PR
Skylark	<i>Alauda arvensis</i>	Resident Breeder, Passage/Winter Visitor	C	T	PR
Song Thrush	<i>Turdus philomelos</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	S	PO
Sparrowhawk	<i>Accipiter nisus</i>	Resident Breeder, Passage/Winter Visitor	FC	H	PO
Starling	<i>Sturnus vulgaris</i>	Resident Breeder, Passage/Winter Visitor	A	FL	C
Stock Dove	<i>Columba oenas</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR
Swallow	<i>Hirundo rustica</i>	Migrant Breeder, Passage Visitor	C	H	PO
Swift	<i>Apus apus</i>	Migrant Breeder, Passage Visitor	C	F	NB
Tree Sparrow	<i>Passer montanus</i>	Resident Breeder, Passage Visitor	U	S	PO
Whitethroat	<i>Sylvia communis</i>	Migrant Breeder, Passage Visitor	FC-C	FL	C
Willow Warbler	<i>Phylloscopus trochilus</i>	Migrant Breeder, Passage Visitor	C-A	S	PO
Woodpigeon	<i>Columba palumbus</i>	Resident Breeder, Winter Visitor	A	FL	C

Common Name	Scientific Name	Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Wren	<i>Troglodytes troglodytes</i>	Resident Breeder, Passage/Winter Visitor	A	T	PR
Yellow Wagtail	<i>Motacilla flava</i>	Migrant Breeder, Passage Visitor	U	H	PO
Yellowhammer	<i>Emberiza citrinella</i>	Resident Breeder, Passage/Winter Visitor	FC	FL	C

Table 12 Full of Results for Transect 9

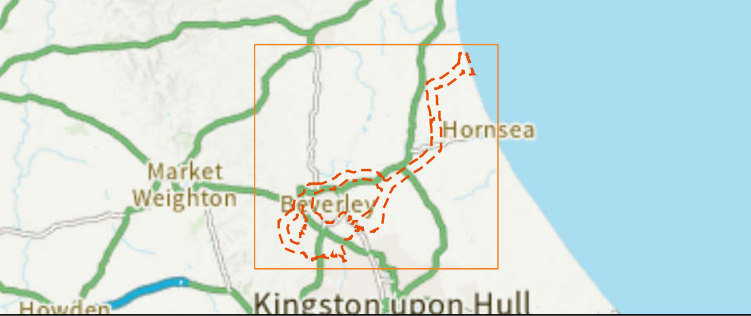
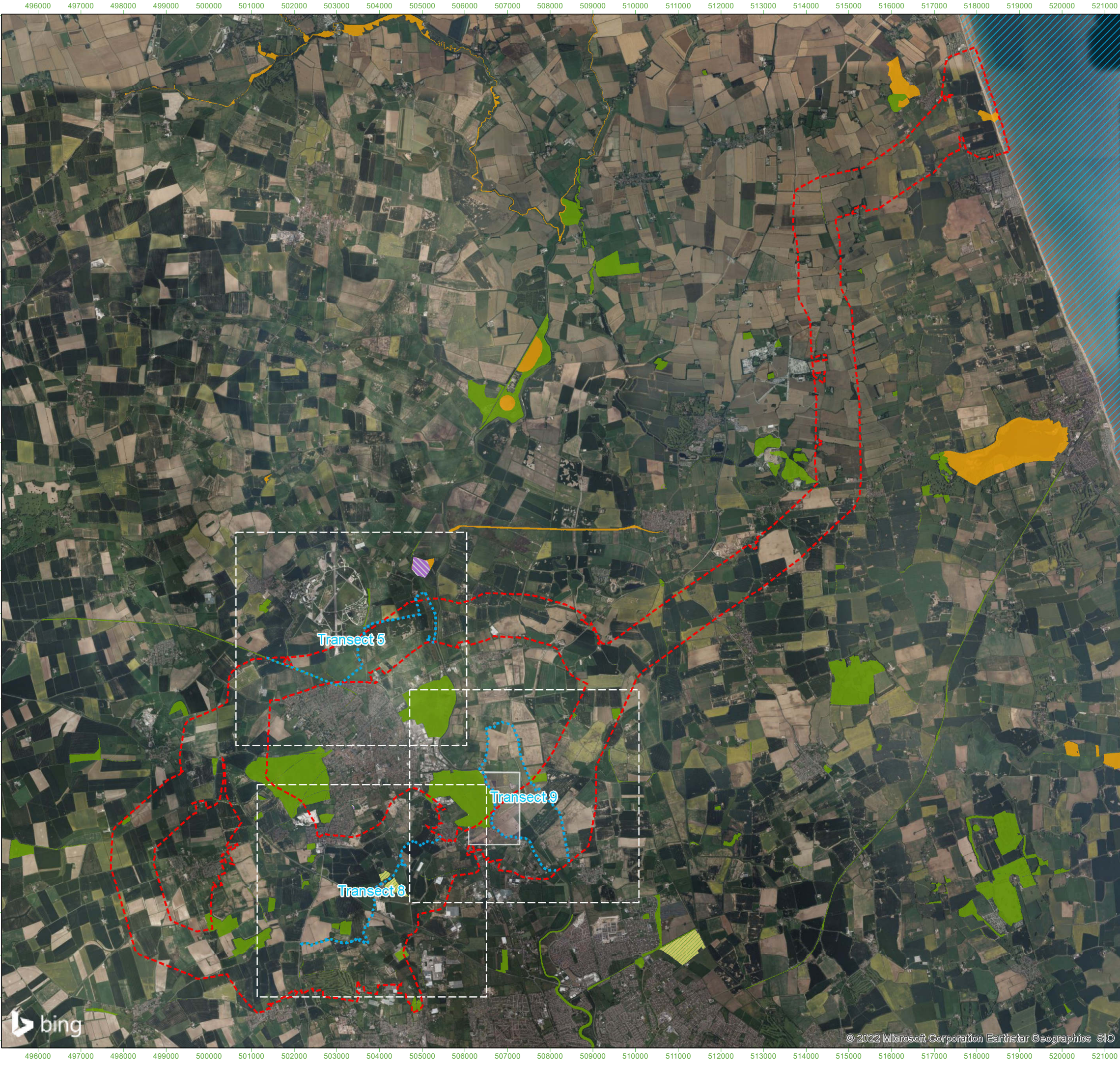
Common Name	Scientific Name	UK Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Barn Owl	<i>Tyto alba</i>	Resident Breeder	U	N	PR
Blackbird	<i>Turdus merula</i>	Migrant/Resident Breeder, Passage/Winter Visitor	A	FL	C
Blackcap	<i>Sylvia atricapilla</i>	Migrant Breeder, Passage/Winter Visitor	C	T	PR
Blue Tit	<i>Cyanistes caeruleus</i>	Resident Breeder, Winter Visitor	A	FL	C
Bullfinch	<i>Pyrrhula pyrrhula</i>	Resident Breeder, Scarce Visitor	U	H	PO
Buzzard	<i>Buteo buteo</i>	Resident Breeder, Passage/Winter Visitor	FC	FL	C
Carrion Crow	<i>Corvus corone</i>	Resident Breeder, Winter Visitor	A	FL	C
Chaffinch	<i>Fringilla coelebs</i>	Resident Breeder, Passage/Winter Visitor	A	FL	C
Chiffchaff	<i>Phylloscopus collybita</i>	Migrant Breeder, Passage/Winter Visitor	C	FL	C
Coal Tit	<i>Periparus ater</i>	Resident Breeder	C	H	PO
Collared Dove	<i>Streptopelia decaocto</i>	Resident Breeder	C	T	PR
Common Gull	<i>Larus canus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	R	U/M	NB
Common Tern	<i>Sterna hirundo</i>	Migrant Breeder, Passage Visitor	S	U/M	NB
Curlew	<i>Numenius arquata</i>	Migrant/Resident Breeder, Passage/Winter Visitor	U	F	NB
Dunnoek	<i>Prunella modularis</i>	Resident Breeder, Passage/Winter Visitor	C	T	PR
Garganey	<i>Spatula querquedula</i>	Migrant Breeder, Passage Visitor	R	F	NB

Common Name	Scientific Name	UK Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Goldcrest	<i>Regulus regulus</i>	Resident Breeder, Passage/Winter Visitor	FC	H	PO
Golden Plover	<i>Pluvialis apricaria</i>	Migrant/Resident Breeder, Passage/Winter Visitor	U	F	NB
Goldfinch	<i>Carduelis carduelis</i>	Migrant/Resident Breeder	C	T	PR
Great Black-backed Gull	<i>Larus marinus</i>	Resident Breeder, Winter Visitor	R	U/M	NB
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Resident Breeder, Scarce Visitor	FC	H	PO
Great Tit	<i>Parus major</i>	Resident Breeder, Winter Visitor	A	FL	C
Greenfinch	<i>Chloris chloris</i>	Resident Breeder, Winter Visitor	C	S	PO
Grey Heron	<i>Ardea cinerea</i>	Resident Breeder, Winter Visitor	U	H	PO
Grey Partridge	<i>Perdix perdix</i>	Resident/Introduced Breeder	FC	H	PO
Greylag Goose	<i>Anser anser</i>	Introduced/Resident Breeder, Winter Migrant	FC (Feral)	P	PR
Herring Gull	<i>Larus argentatus</i>	Resident Breeder, Passage/Winter Visitor	C	U/M	NB
House Martin	<i>Delichon urbicum</i>	Migrant Breeder, Passage Visitor	C	F	NB
House Sparrow	<i>Passer domesticus</i>	Resident Breeder	A	T	PR
Jackdaw	<i>Coloeus monedula</i>	Resident Breeder, Winter Visitor	A	H	PO
Kestrel	<i>Falco tinnunculus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	FC	FL	C
Lapwing	<i>Vanellus vanellus</i>	Migrant/Resident Breeder, Passage/Winter Visitor	U	H	PO
Lesser Black-backed Gull	<i>Larus fuscus</i>	Migrant/Resident Breeder, Passage Visitor	U	U/M	NB
Lesser Whitethroat	<i>Sylvia curruca</i>	Migrant Breeder, Passage Visitor	FC-U	S	PO
Linnet	<i>Linaria cannabina</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	FL	C
Long-tailed Tit	<i>Aegithalos caudatus</i>	Resident Breeder	C	FL	C
Magpie	<i>Pica pica</i>	Resident Breeder	C	H	PO
Mallard	<i>Anas platyrhynchos</i>	Introduced/Resident Breeder, Winter Visitor	FC	FL	C
<u>Marsh Harrier</u>	<u><i>Circus aeruginosus</i></u>	<u>Migrant/Resident Breeder, Passage Visitor</u>	S	F	NB
Meadow Pipit	<i>Anthus pratensis</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	FL	C

Common Name	Scientific Name	UK Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Moorhen	<i>Gallinula chloropus</i>	Resident Breeder, Winter Visitor	C-A	H	PO
Mute Swan	<i>Cygnus olor</i>	Resident/Introduced Breeder	U	F	NB
Pheasant	<i>Phasianus colchicus</i>	Introduced Breeder	C-A	H	PO
Pied Wagtail	<i>Motacilla alba</i>	Migrant/Resident Breeder, Passage Visitor	C	H	PO
Quail	<i>Coturnix coturnix</i>	Migrant Breeder	S	S	PO
Red-legged Partridge	<i>Alectoris rufa</i>	Introduced Breeder	C	S	PO
Reed Bunting	<i>Emberiza schoeniclus</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR
Reed Warbler	<i>Acrocephalus scirpaceus</i>	Migrant Breeder, Passage Visitor	U	FL	C
Robin	<i>Erithacus rubecula</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C-A	FL	C
Rook	<i>Corvus frugilegus</i>	Resident Breeder, Winter Visitor	A	FL	C
Sand Martin	<i>Riparia riparia</i>	Migrant Breeder, Passage Visitor	FC	F	NB
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	Migrant Breeder, Passage Visitor	FC	S	PO
Skylark	<i>Alauda arvensis</i>	Resident Breeder, Passage/Winter Visitor	C	T	PR
Song Thrush	<i>Turdus philomelos</i>	Migrant/Resident Breeder, Passage/Winter Visitor	C	S	PO
Sparrowhawk	<i>Accipiter nisus</i>	Resident Breeder, Passage/Winter Visitor	FC	H	PO
Starling	<i>Sturnus vulgaris</i>	Resident Breeder, Passage/Winter Visitor	A	ON	C
Stock Dove	<i>Columba oenas</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR
Swallow	<i>Hirundo rustica</i>	Migrant Breeder, Passage Visitor	C	FL	C
Swift	<i>Apus apus</i>	Migrant Breeder, Passage Visitor	C	F	NB
Tree Sparrow	<i>Passer montanus</i>	Resident Breeder, Passage Visitor	U	S	PO
Treecreeper	<i>Certhia familiaris</i>	Resident Breeder	FC	H	PO
Wheatear	<i>Oenanthe oenanthe</i>	Migrant Breeder, Passage Visitor	S	M	NB
Whitethroat	<i>Sylvia communis</i>	Migrant Breeder, Passage Visitor	FC-C	FL	C
Willow Warbler	<i>Phylloscopus trochilus</i>	Migrant Breeder, Passage Visitor	C-A	T	PR

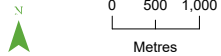
Common Name	Scientific Name	UK Status	Yorkshire breeding status	Site Breeding Status	
				Classifying behaviour	Breeding Category
Woodpigeon	<i>Columba palumbus</i>	Resident Breeder, Winter Visitor	A	FL	C
Wren	<i>Troglodytes troglodytes</i>	Resident Breeder, Passage/Winter Visitor	A	T	PR
Yellow Wagtail	<i>Motacilla flava</i>	Migrant Breeder, Passage Visitor	U	H	PO
Yellowhammer	<i>Emberiza citrinella</i>	Resident Breeder, Passage/Winter Visitor	FC	P	PR

APPENDIX E: Figures



Survey Information	
	Onshore study area (21/08/22)
	Local Nature Reserve (LNR)
	Local Wildlife Site / Site of Nature Conservation Interest
	Site of Special Scientific Interest (SSSI)
	Special Protection Area (SPA)
	Yorkshire Wildlife Trust reserve

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PROJECT TITLE

DOGGER BANK SOUTH

DRAWING TITLE

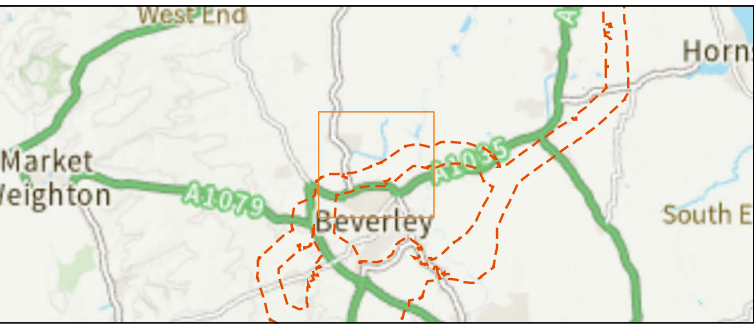
Figure 2A. Designations - Overview

VER	DATE	REMARKS	Drawn	Checked
1.3	13/10/22	Designations	MP	CP

DRAWING NUMBER:

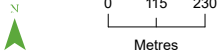
PeakEcology/DB2/Ornithology/Designations/A

 ECOLOGICAL CONSULTANTS Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
	PROJECTION	BNG
	PLOT SIZE	A3
	SCALE	1:87,000



Survey Information	
	Onshore study area (21/08/22)
	Local Nature Reserve (LNR)
	Local Wildlife Site / Site of Nature Conservation Interest
	Site of Special Scientific Interest (SSSI)
	Special Protection Area (SPA)
	Yorkshire Wildlife Trust reserve

Source:
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PROJECT TITLE

DOGGER BANK SOUTH

DRAWING TITLE

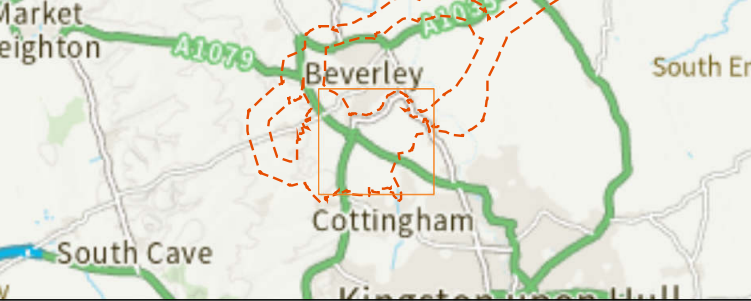
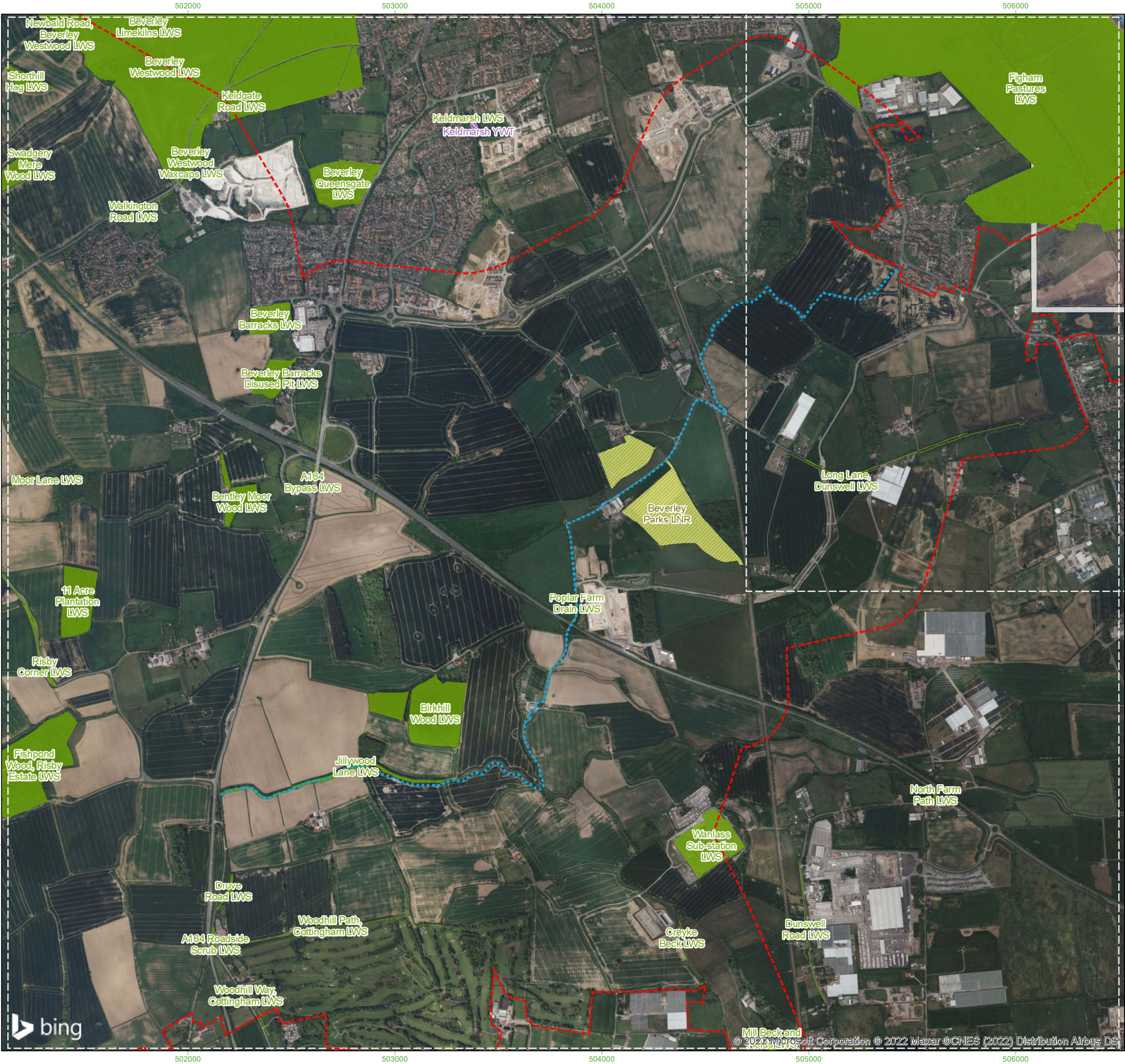
Figure 2B. Designations - Transect 5

VER	DATE	REMARKS	Drawn	Checked
1.3	13/10/22	Designations	MP	CP

DRAWING NUMBER:

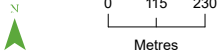
PeakEcology/DB2/Ornithology/Designations/B

peakecology LIMITED ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk		DATUM	OSGB
			PROJECTION	BNG
			PLOT SIZE	A3
			SCALE	1:18,000



Survey Information	
	Onshore study area (21/08/22)
	Local Nature Reserve (LNR)
	Local Wildlife Site / Site of Nature Conservation Interest
	Site of Special Scientific Interest (SSSI)
	Special Protection Area (SPA)
	Yorkshire Wildlife Trust reserve

Source:
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PROJECT TITLE

DOGGER BANK SOUTH

DRAWING TITLE

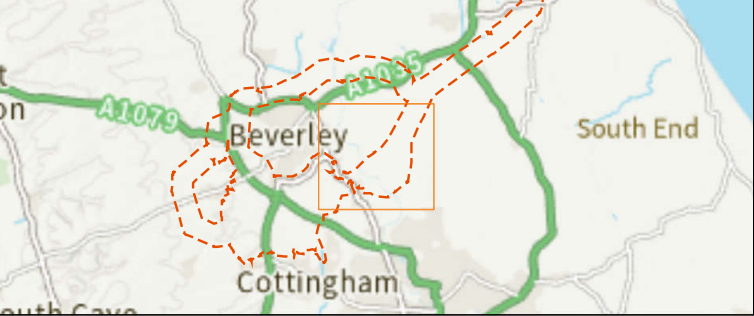
Figure 2C. Designations - Transect 8

VER	DATE	REMARKS	Drawn	Checked
1.3	13/10/22	Designations	MP	CP

DRAWING NUMBER:

PeakEcology/DB2/Ornithology/Designations/C

 ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:18,000



Survey Information	
	Onshore study area (21/08/22)
	Local Nature Reserve (LNR)
	Local Wildlife Site / Site of Nature Conservation Interest
	Site of Special Scientific Interest (SSSI)
	Special Protection Area (SPA)
	Yorkshire Wildlife Trust reserve

Source:
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PROJECT TITLE

DOGGER BANK SOUTH

DRAWING TITLE

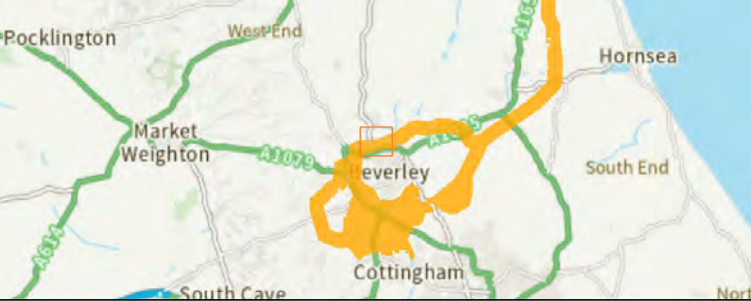
Figure 2D. Designations - Transect 9

VER	DATE	REMARKS	Drawn	Checked
1.3	13/10/22	Designations	MP	CP

DRAWING NUMBER:

PeakEcology/DB2/Ornithology/Designations/D

peakecology LIMITED ECOLOGICAL CONSULTANTS Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
	PROJECTION	BNG
	PLOT SIZE	A3
	SCALE	1:18,000



Survey Information

 Onshore study area (21/08/22)

----- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
⊗	Bird singing	—	Same bird
⊗	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Treecreeper
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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

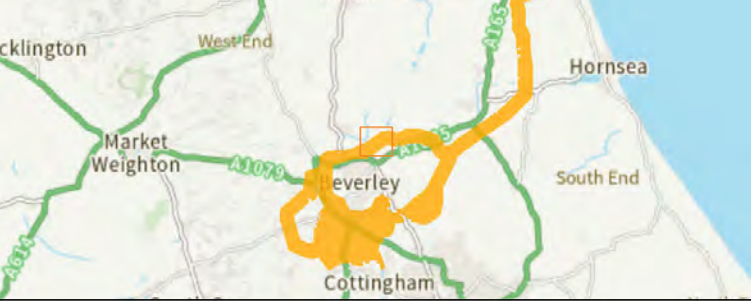
Figure 1. Transect 5, Visit 1 - 20/04/22 (06:10 - 10:45)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T5_V1	MP	CP

DRAWING NUMBER:

PeakEcology/DB2/BBS22/T5_V1

peakecology LIMITED ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire. DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:7,250



Survey Information

 Onshore study area (21/08/22)

---- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
(x)	Bird singing	—	Same bird
(X)	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Treecreeper
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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

Figure 2. Transect 5, Visit 1 - 20/04/22 (06:10 - 10:45)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T5_V1	MP	CP

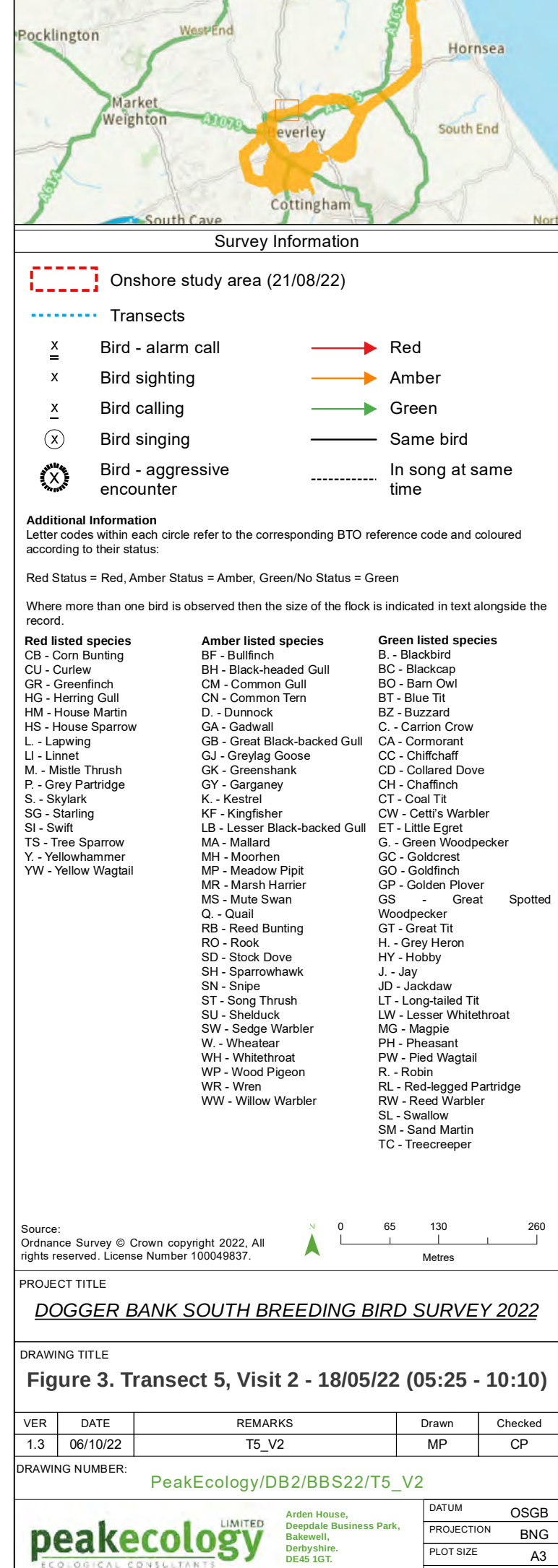
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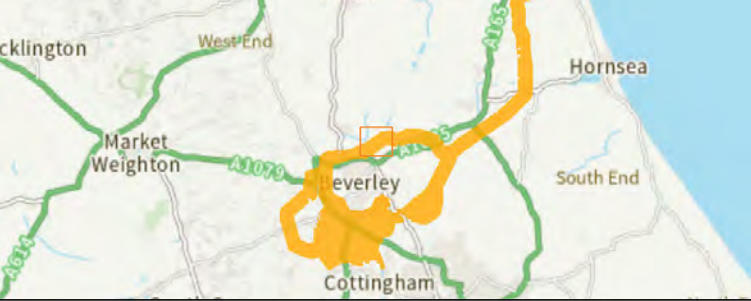
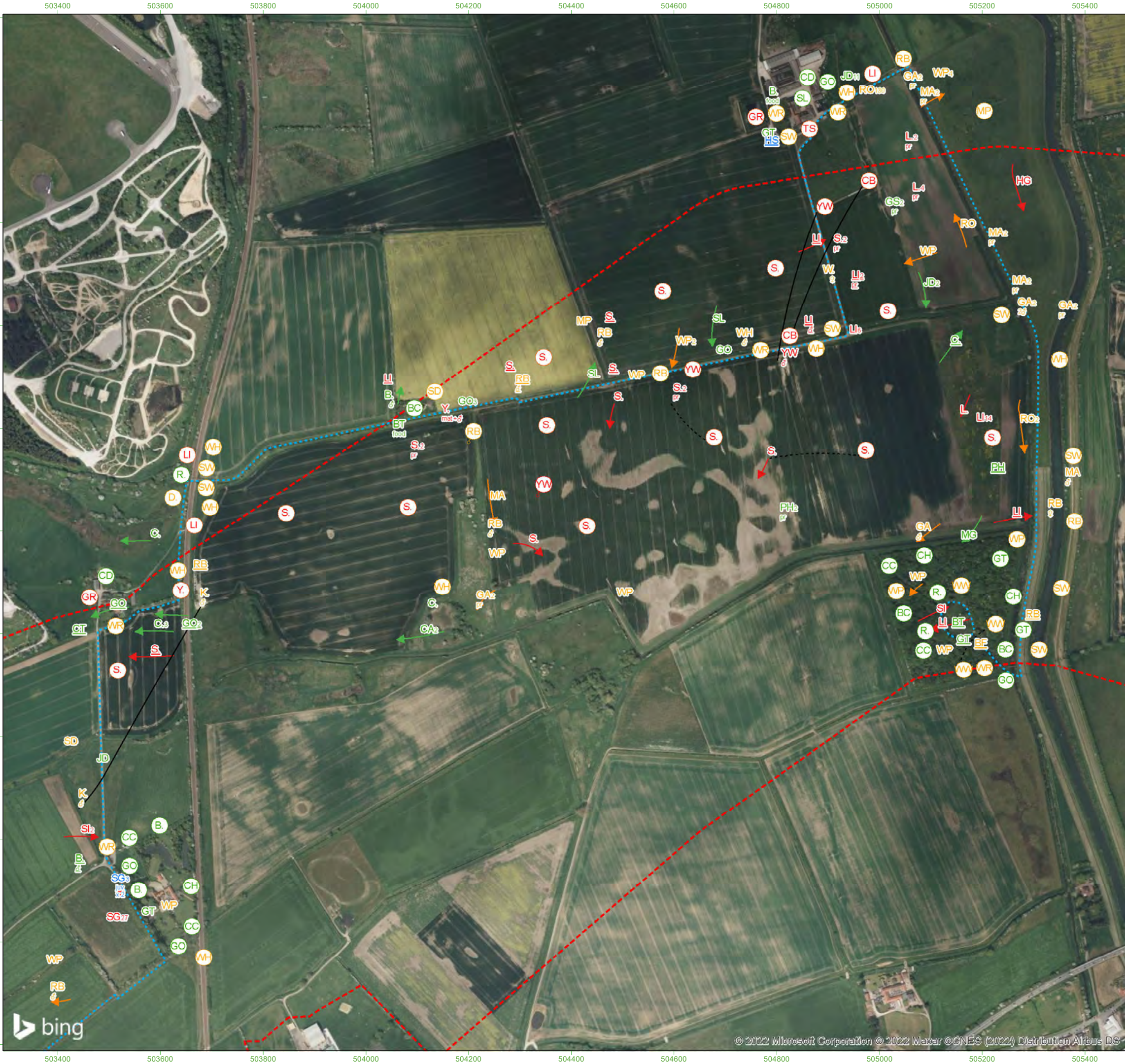
PeakEcology/DB2/BBS22/T5_V1

peakecology LIMITED
ECOLOGICAL CONSULTANTS

Arden House,
Deepdale Business Park,
Bakewell,
Derbyshire,
DE45 1GT.
www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250





Survey Information

Onshore study area (21/08/22)

Transects

x

Bird - alarm call

x

Bird sighting

x

Bird calling

x

Bird singing

x

Bird - aggressive encounter

Red

Amber

Green

Same bird

In song at same time

Additional Information

Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species

CB - Corn Bunting
CU - Curlew
GR - Greenfinch
HG - Herring Gull
HM - House Martin
HS - House Sparrow
L - Lapwing
LI - Linnet
M - Mistle Thrush
P - Grey Partridge
S - Skylark
SG - Starling
SI - Swift
TS - Tree Sparrow
Y - Yellowhammer
YW - Yellow Wagtail

Amber listed species

BF - Bullfinch
BH - Black-headed Gull
CM - Common Gull
CN - Common Tern
D - Dunnock
GA - Gadwall
GB - Great Black-backed Gull
GJ - Greylag Goose
GK - Greenshank
GY - Garganey
K - Kestrel
KF - Kingfisher
LB - Lesser Black-backed Gull
MA - Mallard
MH - Moorhen
MP - Meadow Pipit
MR - Marsh Harrier
MS - Mute Swan
Q - Quail
RB - Reed Bunting
RO - Rook
SD - Stock Dove
SH - Sparrowhawk
SN - Snipe
ST - Song Thrush
SU - Shelduck
SW - Sedge Warbler
W - Wheatear
WH - Whitethroat
WP - Wood Pigeon
WR - Wren
WW - Willow Warbler

Green listed species

B - Blackbird
BC - Blackcap
BO - Barn Owl
BT - Blue Tit
BZ - Buzzard
C - Carrion Crow
CA - Cormorant
CC - Chiffchaff
CD - Collared Dove
CH - Chaffinch
CT - Coal Tit
CW - Cetti's Warbler
ET - Little Egret
G - Green Woodpecker
GC - Goldcrest
GO - Goldfinch
GP - Golden Plover
GS - Great Spotted Woodpecker
GT - Great Tit
H - Grey Heron
HY - Hobby
J - Jay
JD - Jackdaw
LT - Long-tailed Tit
LW - Lesser Whitethroat
MG - Magpie
PH - Pheasant
PW - Pied Wagtail
R - Robin
RL - Red-legged Partridge
RW - Reed Warbler
SL - Swallow
SM - Sand Martin
TC - Tree Creeper

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Figure 4. Transect 5, Visit 2 - 18/05/22 (05:25 - 10:10)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T5_V2	MP	CP

DRAWING NUMBER:

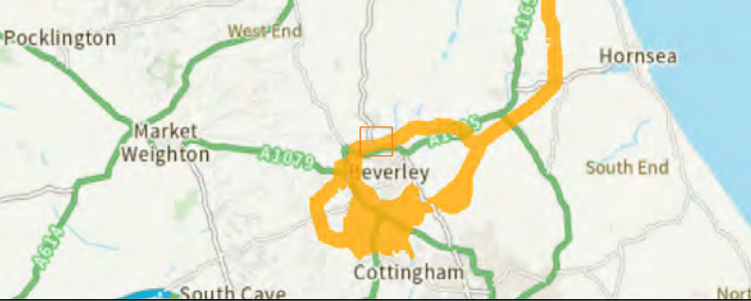
PeakEcology/DB2/BBS22/T5_V2

peakecology LIMITED

Ecological Consultants

Arden House,
Deepdale Business Park,
Bakewell,
Derbyshire,
DE45 1GT.
www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250



Survey Information

 Onshore study area (21/08/22)

----- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
⊗	Bird singing	—	Same bird
⊗	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Treecreeper
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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

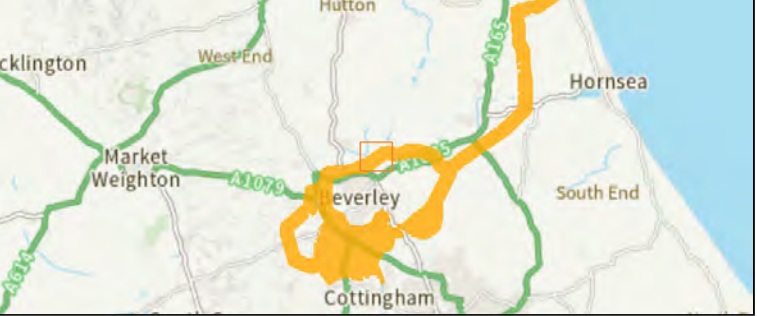
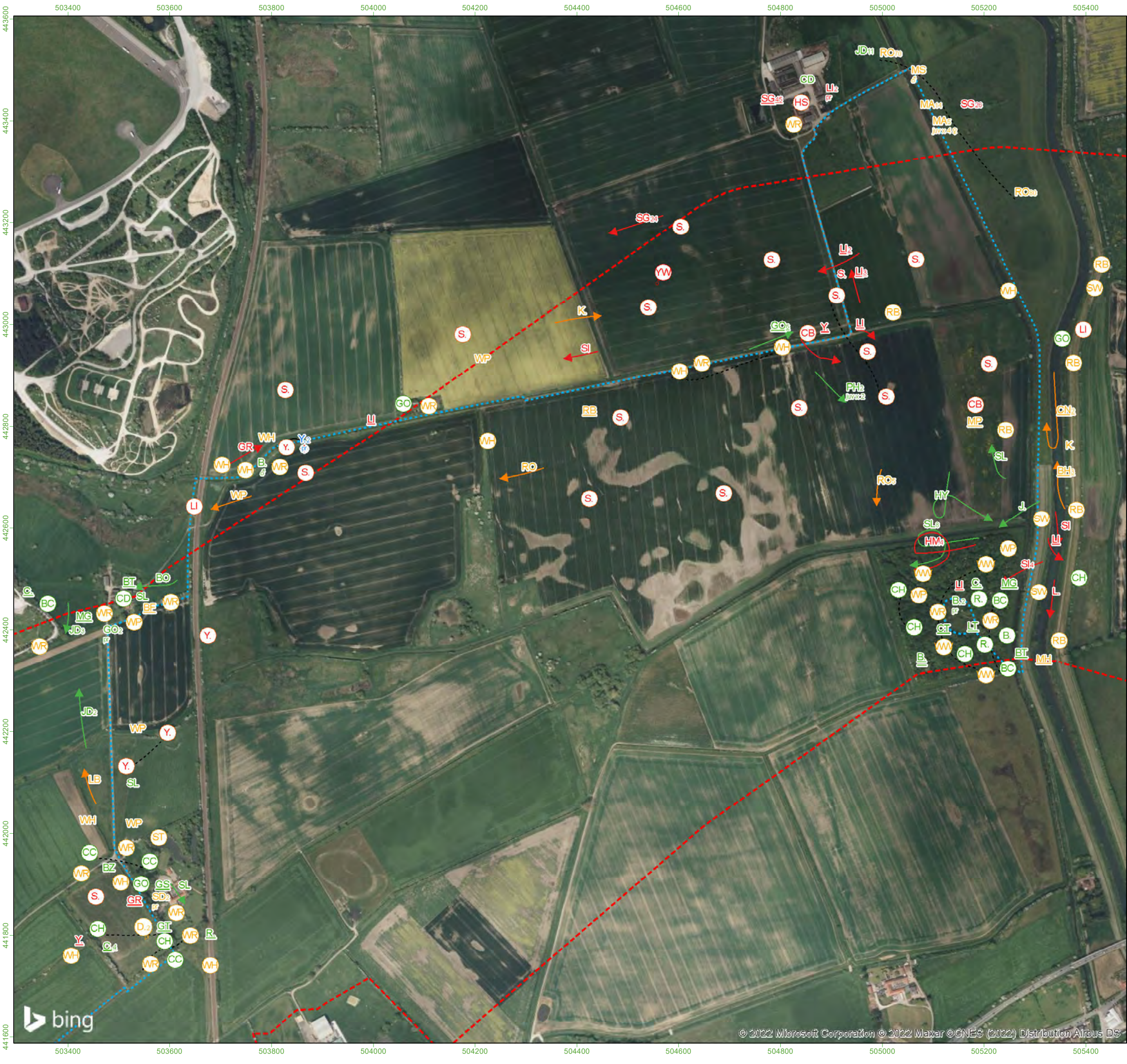
Figure 5. Transect 5, Visit 3 - 21/06/22 (04:45 - 10:15)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T5_V3	MP	CP

DRAWING NUMBER:

PeakEcology/DB2/BBS22/T5_V3

peakecology LIMITED ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire. DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:7,250



Survey Information

Onshore study area (21/08/22)

---- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
(x)	Bird singing	—	Same bird
(X)	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Treecreeper
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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

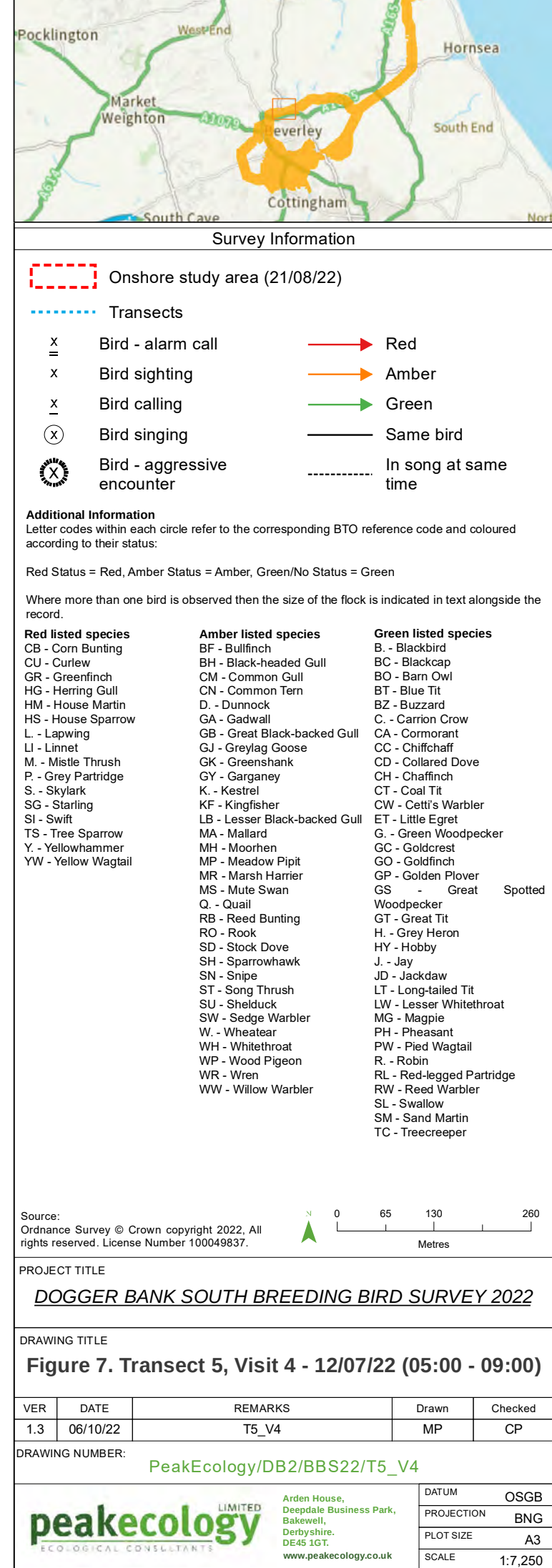
Figure 6. Transect 5, Visit 3 - 21/06/22 (04:45 - 10:15)

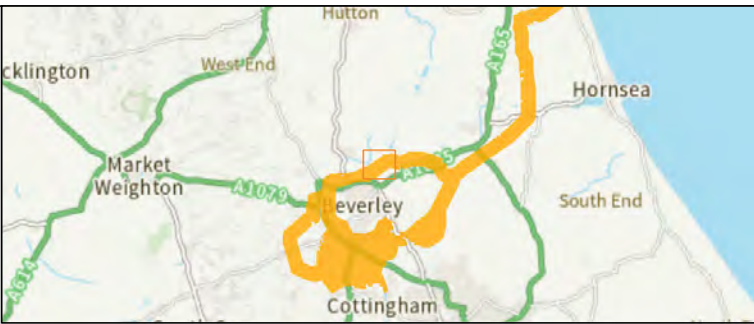
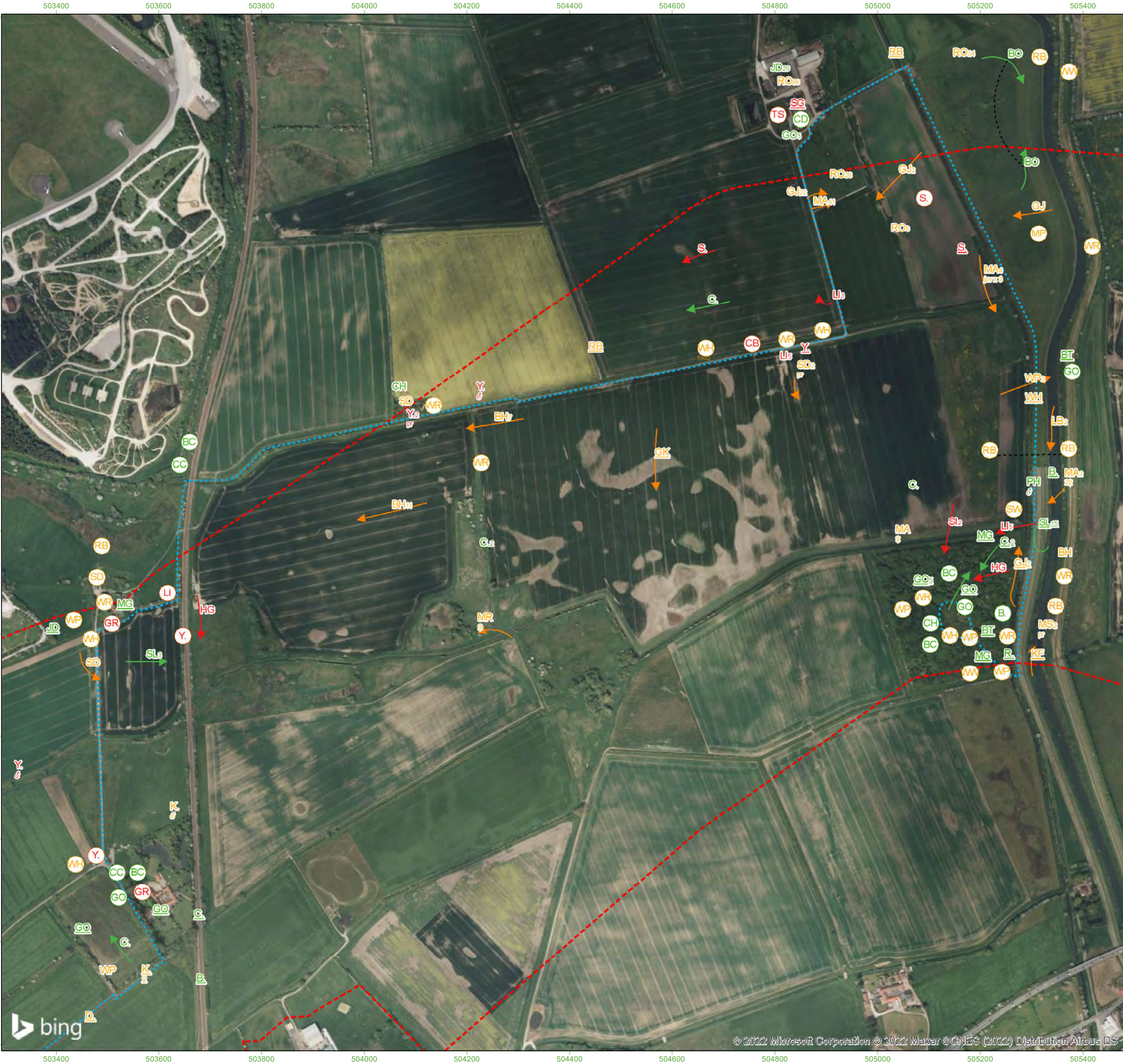
VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T5_V3	MP	CP

DRAWING NUMBER:

PeakEcology/DB2/BBS22/T5_V3

peakecology LIMITED ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:7,250





Survey Information

- Onshore study area (21/08/22)
- Transects
- x

Bird - alarm call
- x

Bird sighting
- x

Bird calling
- (x)

Bird singing
- (X)

Bird - aggressive encounter
- Red
- Amber
- Green
- Same bird
- In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species	Amber listed species	Green listed species
CB - Corn Bunting	BF - Bullfinch	B - Blackbird
CU - Curlew	BH - Black-headed Gull	BC - Blackcap
GR - Greenfinch	CM - Common Gull	BO - Barn Owl
HG - Herring Gull	CN - Common Tern	BT - Blue Tit
HM - House Martin	D - Dunnock	BZ - Buzzard
HS - House Sparrow	GA - Gadwall	C - Carrion Crow
L - Lapwing	GB - Great Black-backed Gull	CA - Cormorant
LI - Linnet	GJ - Greylag Goose	CC - Chiffchaff
M - Mistle Thrush	GK - Greenshank	CD - Collared Dove
P - Grey Partridge	GY - Garganey	CH - Chaffinch
S - Skylark	K - Kestrel	CT - Coal Tit
SG - Starling	KF - Kingfisher	CW - Cetti's Warbler
SI - Swift	LB - Lesser Black-backed Gull	ET - Little Egret
TS - Tree Sparrow	MA - Mallard	G - Green Woodpecker
Y - Yellowhammer	MH - Moorhen	GC - Goldcrest
YW - Yellow Wagtail	MP - Meadow Pipit	GO - Goldfinch
	MR - Marsh Harrier	GP - Golden Plover
	MS - Mute Swan	GS - Great Spotted Woodpecker
	Q - Quail	GT - Great Tit
	RB - Reed Bunting	H - Grey Heron
	RO - Rook	HY - Hobby
	SD - Stock Dove	J - Jay
	SH - Sparrowhawk	JD - Jackdaw
	SN - Snipe	LT - Long-tailed Tit
	ST - Song Thrush	LW - Lesser Whitethroat
	SU - Shelduck	MG - Magpie
	SW - Sedge Warbler	PH - Pheasant
	W - Wheatear	PW - Pied Wagtail
	WH - Whitethroat	R - Robin
	WP - Wood Pigeon	RL - Red-legged Partridge
	WR - Wren	RW - Reed Warbler
	WW - Willow Warbler	SL - Swallow
		SM - Sand Martin
		TC - Treecreeper

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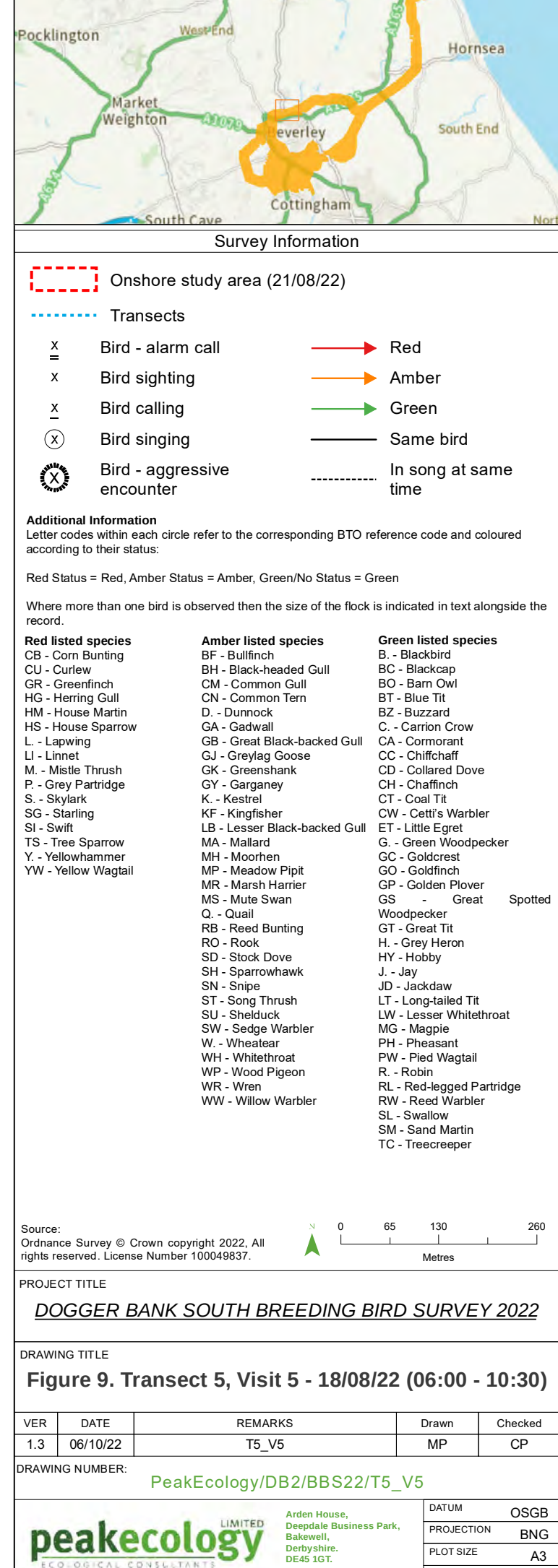
PROJECT TITLE
DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

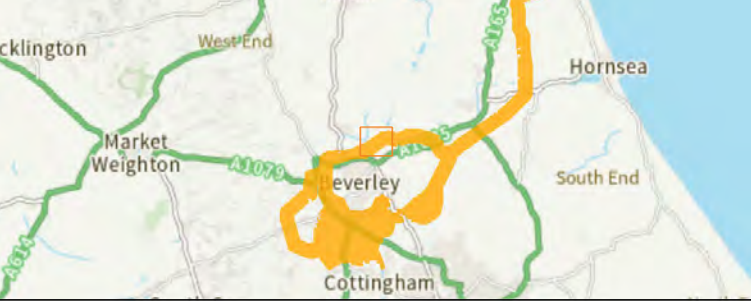
DRAWING TITLE
Figure 8. Transect 5, Visit 4 - 12/07/22 (05:00 - 09:00)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T5_V4	MP	CP

DRAWING NUMBER:
PeakEcology/DB2/BBS22/T5_V4

peakecology LIMITED ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:7,250





Survey Information

 Onshore study area (21/08/22)

---- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
⊗	Bird singing	—	Same bird
⊗	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Treecreeper
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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

Figure 10. Transect 5, Visit 5 - 18/08/22 (06:00 - 10:30)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T5_V5	MP	CP

DRAWING NUMBER:

PeakEcology/DB2/BBS22/T5_V5

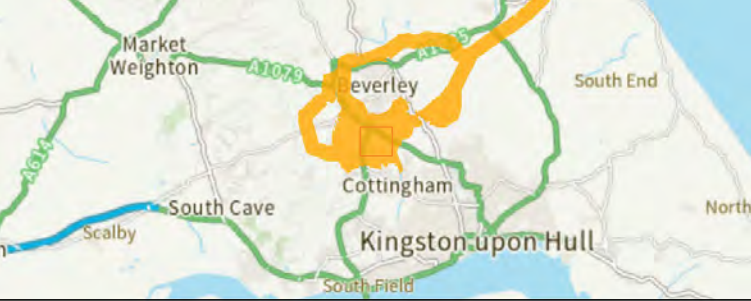
peakecology

LIMITED

ECOLOGICAL CONSULTANTS

Arden House,
Deepdale Business Park,
Bakewell,
Derbyshire.
DE45 1GT.
www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250



Survey Information

Onshore study area (21/08/22)

----- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
(x)	Bird singing	—	Same bird
(X)	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Treecreeper
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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

Figure 11. Transect 8, Visit 1 - 22/04/22 (06:00 - 10:50)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T8_V1	MP	CP

DRAWING NUMBER:

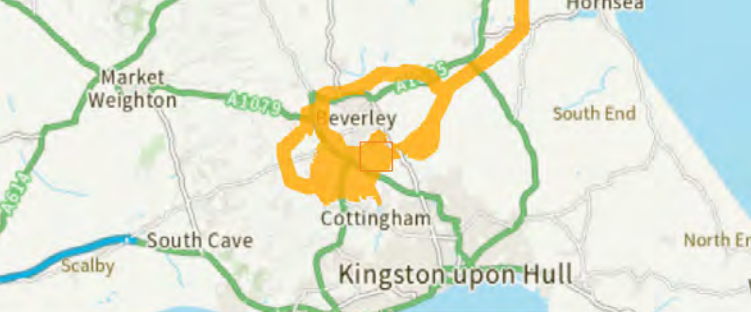
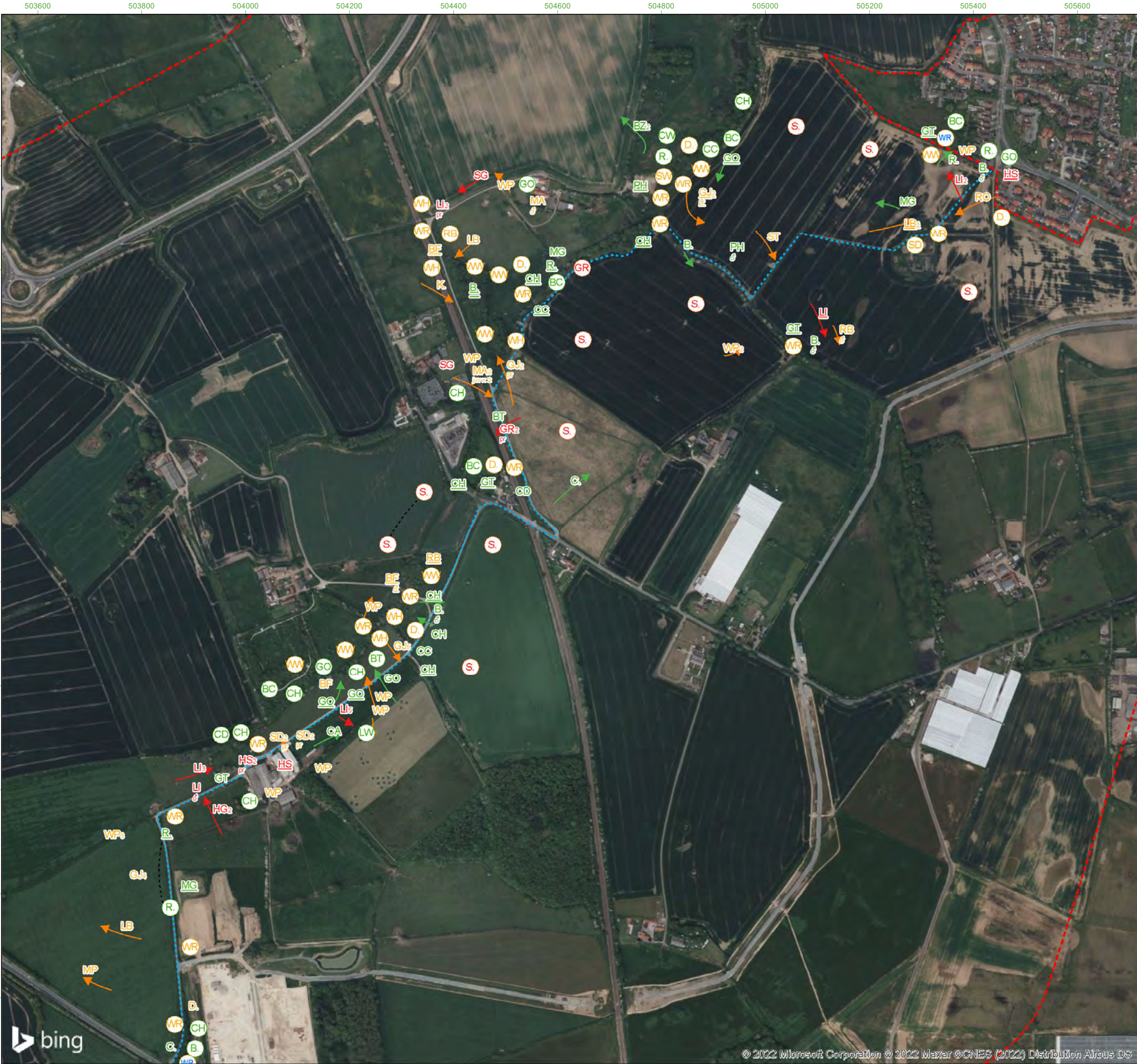
PeakEcology/DB2/BBS22/T8_V1

peakecology LIMITED

ECOLOGICAL CONSULTANTS

Arden House,
Deepdale Business Park,
Bakewell,
Derbyshire.
DE45 1GT.
www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250



Survey Information

Onshore study area (21/08/22)

----- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
⊗	Bird singing	—	Same bird
⊗	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Tree Creeper
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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

Figure 12. Transect 8, Visit 1 - 22/04/22 (06:00 - 10:50)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T8_V1	MP	CP

DRAWING NUMBER:

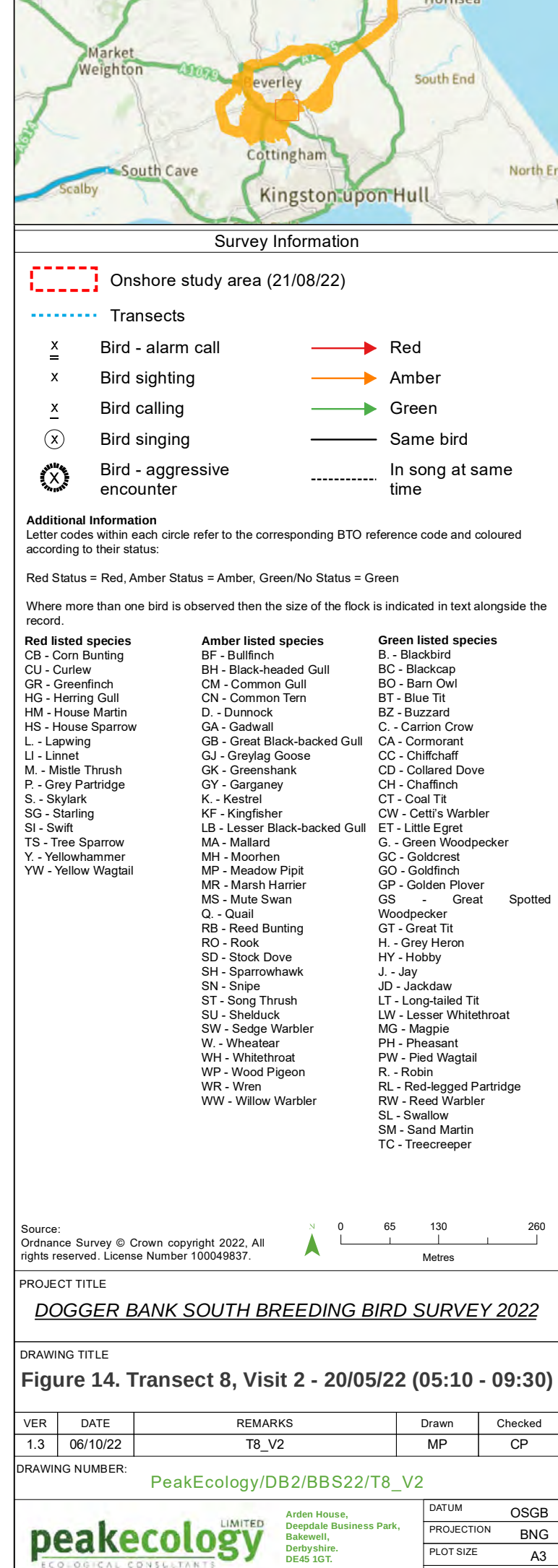
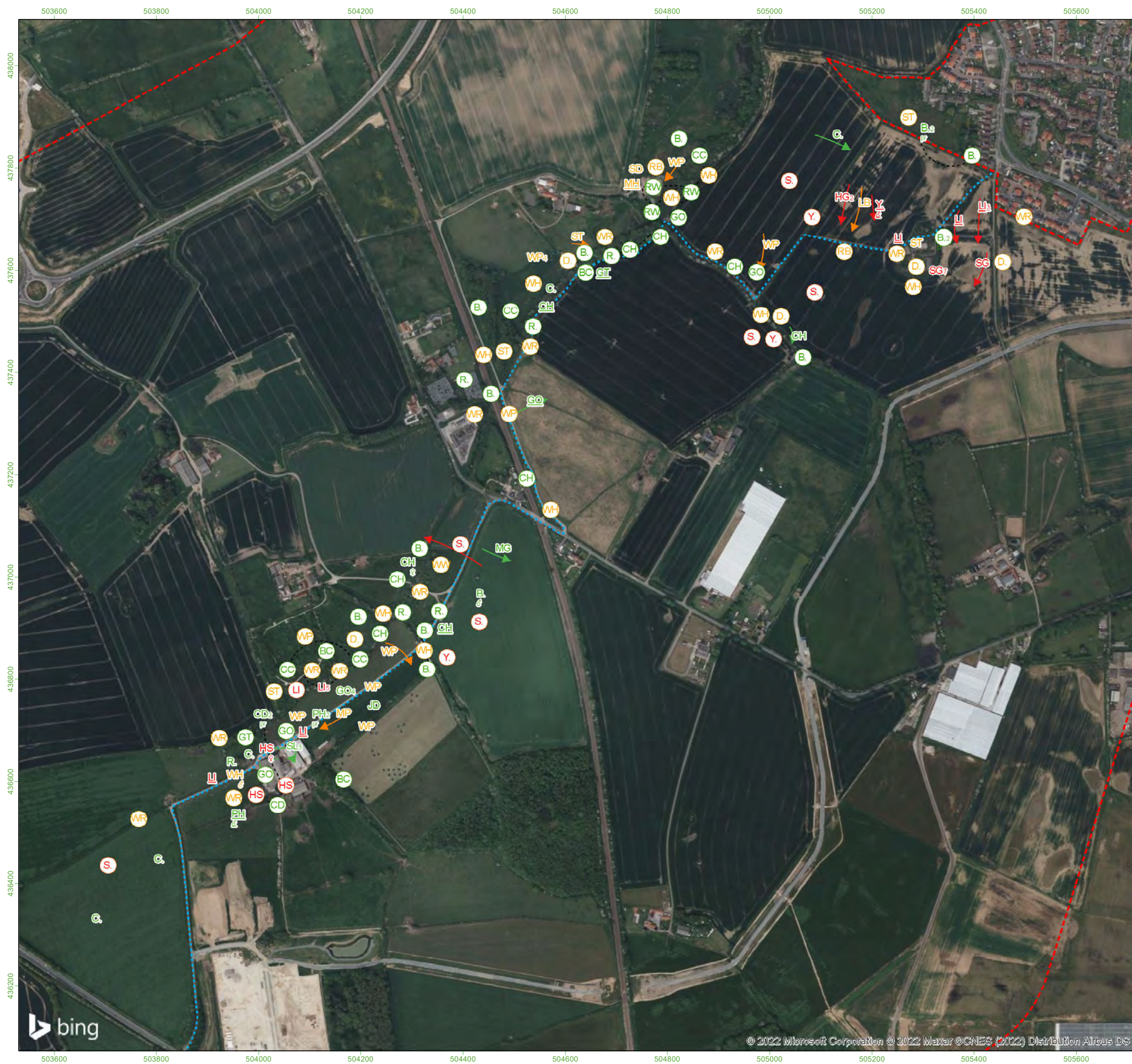
PeakEcology/DB2/BBS22/T8_V1

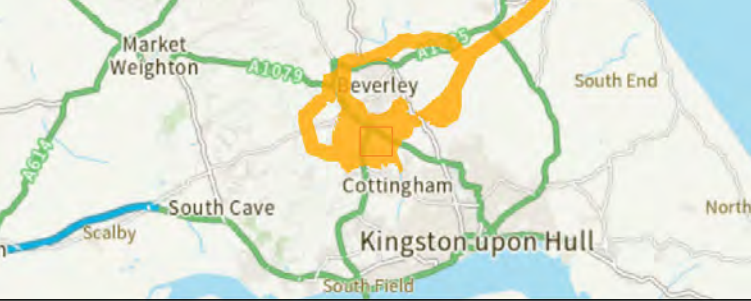
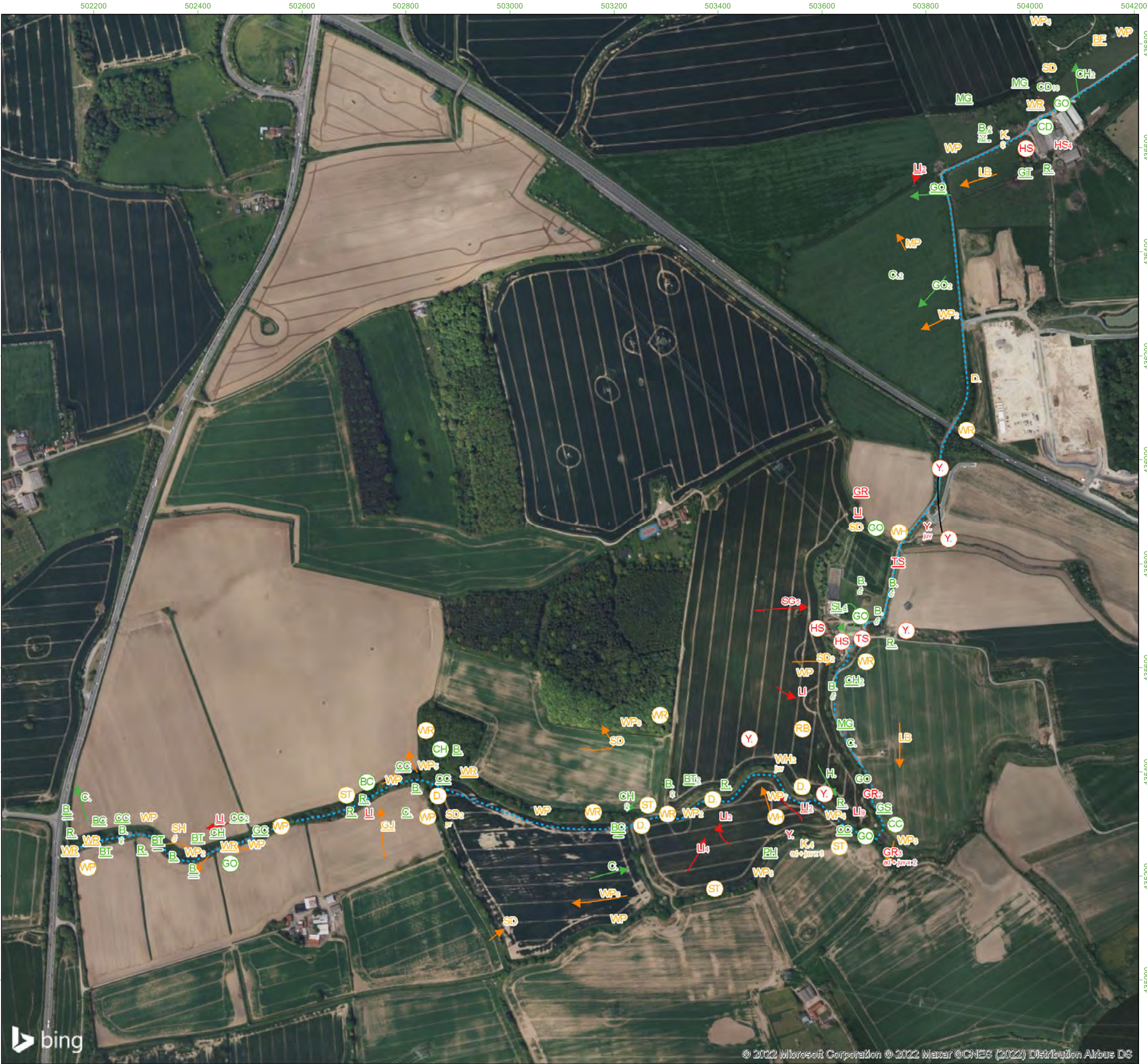
peakecology LIMITED

ECOLOGICAL CONSULTANTS

Arden House,
Deepdale Business Park,
Bakewell,
Derbyshire.
DE45 1GT.
www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250





Survey Information

 Onshore study area (21/08/22)

- - - - - Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
⊗	Bird singing	—	Same bird
⊗	Bird - aggressive encounter	- - - - -	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Treecreeper
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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

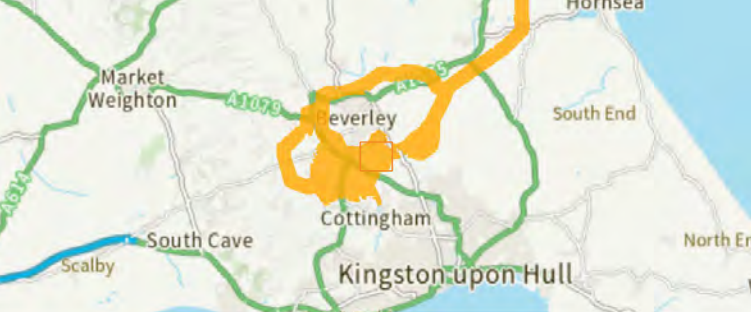
Figure 17. Transect 8, Visit 4 - 14/07/22 (05:10 - 09:10)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T8_V4	MP	CP

DRAWING NUMBER:

PeakEcology/DB2/BBS22/T8_V4

peakecology LIMITED ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire. DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:7,250



Survey Information

 Onshore study area (21/08/22)

- - - - - Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
(x)	Bird singing	—	Same bird
(X)	Bird - aggressive encounter	- - - - -	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Tree Creeper
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PROJECT TITLE
DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE
Figure 18. Transect 8, Visit 4 - 14/07/22 (05:10 - 09:10)

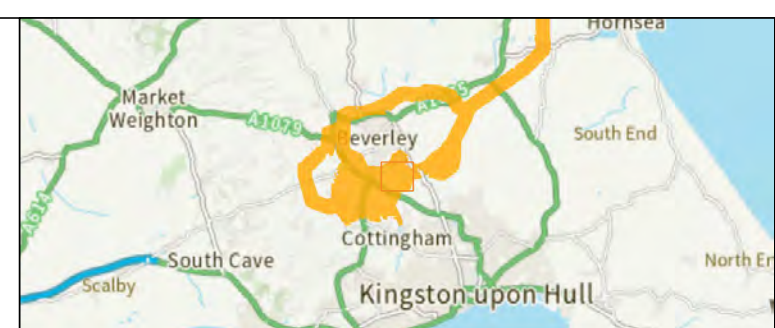
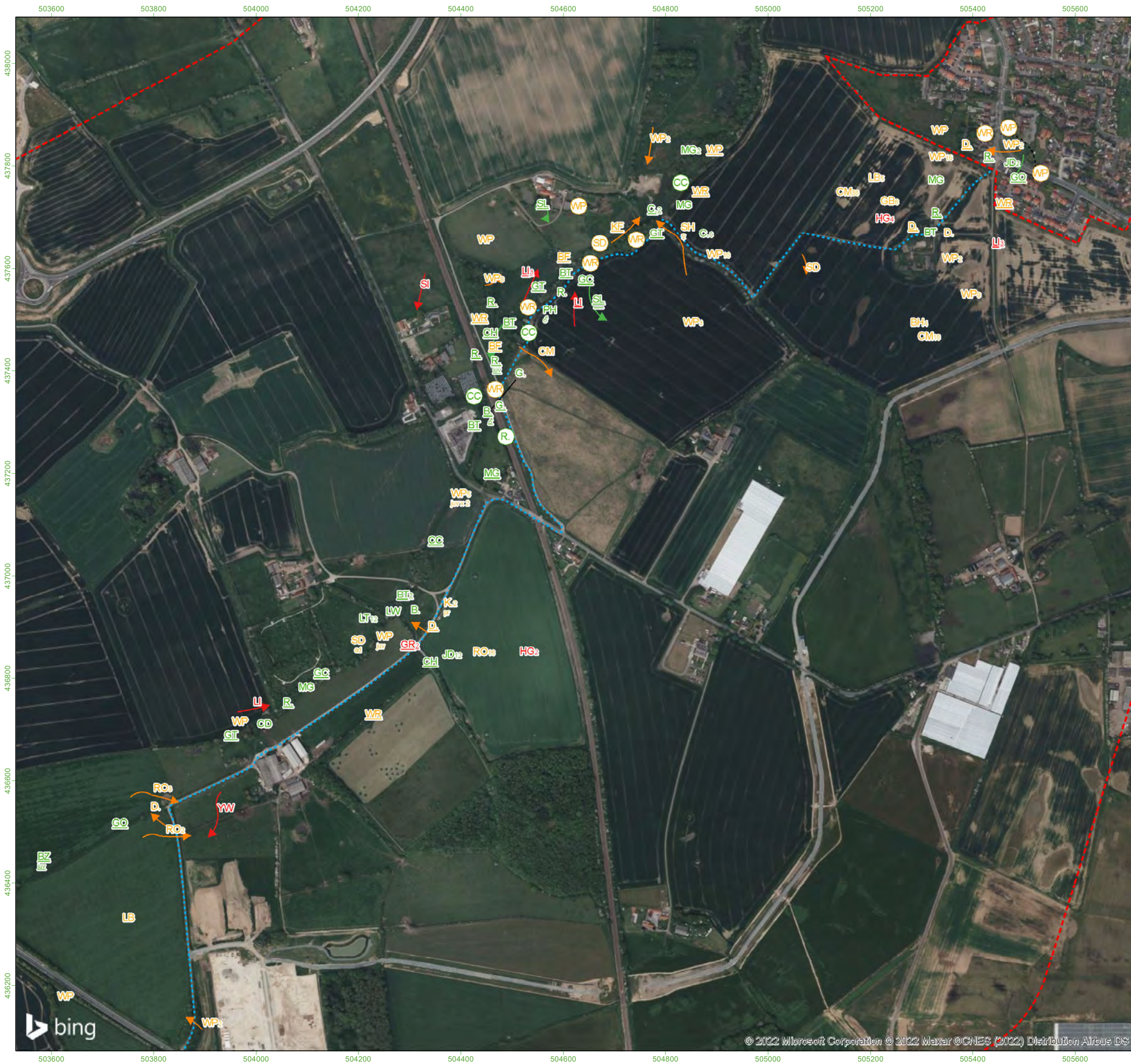
VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T8_V4	MP	CP

DRAWING NUMBER:
PeakEcology/DB2/BBS22/T8_V4



Arden House,
Deepdale Business Park,
Bakewell,
Derbyshire,
DE45 1GT.
www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250



Survey Information

 Onshore study area (21/08/22)

..... Transects

x Bird - alarm call

x Bird sighting

x Bird calling

(x) Bird singing

 Bird - aggressive encounter

→ Red

→ Amber

→ Green

—— Same bird

----- In song at same time

Additional Information

Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species

CB - Corn Bunting
CU - Curlew
GR - Greenfinch
HG - Herring Gull
HM - House Martin
HS - House Sparrow
L - Lapwing
LI - Linnet
M. - Mistle Thrush
P. - Grey Partridge
S. - Skylark
SG - Starling
SI - Swift
TS - Tree Sparrow
Y. - Yellowhammer
YW - Yellow Wagtail

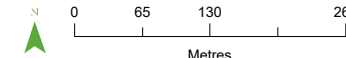
Amber listed species

BF - Bullfinch
 BH - Black-headed Gull
 CM - Common Gull
 CN - Common Tern
 D - Dunnock
 GA - Gadwall
 GB - Great Black-backed Gull
 GJ - Greylag Goose
 GK - Greenshank
 GY - Garganey
 K - Kestrel
 KF - Kingfisher
 LB - Lesser Black-backed Gull
 MA - Mallard
 MH - Moorhen
 MP - Meadow Pipit
 MR - Marsh Harrier
 MS - Mute Swan
 Q - Quail
 RB - Reed Bunting
 RO - Rook
 SD - Stock Dove
 SH - Sparrowhawk
 SN - Snipe
 ST - Song Thrush
 SU - Shelduck
 SW - Sedge Warbler
 W - Wheatear
 WH - Whitethroat
 WP - Wood Pigeon
 WR - Wren
 WW - Willow Warbler

Green listed species

B. - Blackbird
BC - Blackcap
BO - Barn Owl
BT - Blue Tit
BZ - Buzzard
C. - Carrion Crow
CA - Cormorant
CC - Chiffchaff
CD - Collared Dove
CH - Chaffinch
CT - Coal Tit
CW - Cetti's Warbler
ET - Little Egret
G. - Green Woodpecker
GC - Goldcrest
GO - Goldfinch
GP - Golden Plover
GS - Great Spotted Woodpecker
GT - Great Tit
H. - Grey Heron
HY - Hobby
J. - Jay
JD - Jackdaw
LT - Long-tailed Tit
LW - Lesser Whitethroat
MG - Magpie
PH - Pheasant
PW - Pied Wagtail
R. - Robin
RL - Red-legged Partridge
RW - Reed Warbler
SL - Swallow
SM - Sand Martin
TC - Treecreeper

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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

Figure 20. Transect 8, Visit 5 - 19/08/22 (06:10 - 09:50)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T8_V5	MP	CP

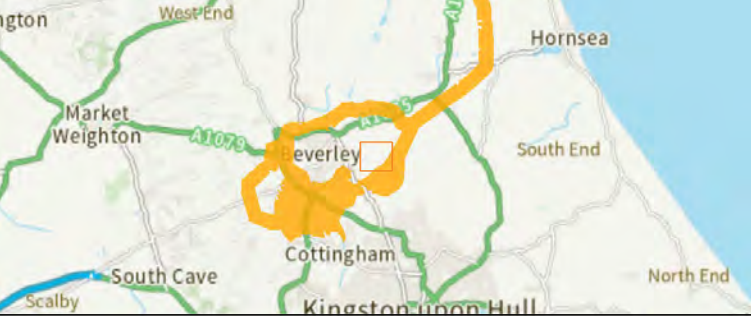
DRAWING NUMBER:

PeakEcology/DB2/BBS22/T8_V5

peakecology LIMITED
ECOLOGICAL CONSULTANTS

Arden House,
Deepdale Business Park,
Bakewell,
Derbyshire.
DE45 1GT.
www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250



Survey Information

- Onshore study area (21/08/22)**
- Transects**
- x Bird - alarm call
 - x Bird sighting
 - x Bird calling
 - (x) Bird singing
 - (X) Bird - aggressive encounter
- Coloured Arrows**
- Red
 - Amber
 - Green
 - Same bird
 - In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species	Amber listed species	Green listed species
CB - Corn Bunting	BF - Bullfinch	B - Blackbird
CU - Curlew	BH - Black-headed Gull	BC - Blackcap
GR - Greenfinch	CM - Common Gull	BO - Barn Owl
HG - Herring Gull	CN - Common Tern	BT - Blue Tit
HM - House Martin	D - Dunnock	BZ - Buzzard
HS - House Sparrow	GA - Gadwall	C - Carrion Crow
L - Lapwing	GB - Great Black-backed Gull	CA - Cormorant
LI - Linnet	GJ - Greylag Goose	CC - Chiffchaff
M - Mistle Thrush	GK - Greenshank	CD - Collared Dove
P - Grey Partridge	GY - Garganey	CH - Chaffinch
S - Skylark	K - Kestrel	CT - Coal Tit
SG - Starling	KF - Kingfisher	CW - Cetti's Warbler
SI - Swift	LB - Lesser Black-backed Gull	ET - Little Egret
TS - Tree Sparrow	MA - Mallard	G - Green Woodpecker
Y - Yellowhammer	MH - Moorhen	GC - Goldcrest
YW - Yellow Wagtail	MP - Meadow Pipit	GO - Goldfinch
	MR - Marsh Harrier	GP - Golden Plover
	MS - Mute Swan	GS - Great Spotted Woodpecker
	Q - Quail	GT - Great Tit
	RB - Reed Bunting	H - Grey Heron
	RO - Rook	HY - Hobby
	SD - Stock Dove	J - Jay
	SH - Sparrowhawk	JD - Jackdaw
	SN - Snipe	LT - Long-tailed Tit
	ST - Song Thrush	LW - Lesser Whitethroat
	SU - Shelduck	MG - Magpie
	SW - Sedge Warbler	PH - Pheasant
	W - Wheatear	PW - Pied Wagtail
	WH - Whitethroat	R - Robin
	WP - Wood Pigeon	RL - Red-legged Partridge
	WR - Wren	RW - Reed Warbler
	WW - Willow Warbler	SL - Swallow
		SM - Sand Martin
		TC - Treecreeper

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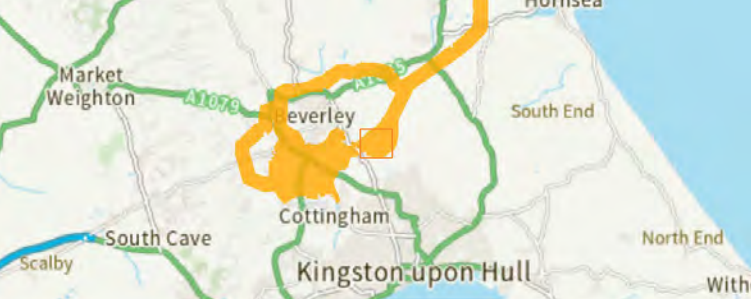
PROJECT TITLE
DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE
Figure 21. Transect 9, Visit 1 - 21/04/22 (06:10 - 11:20)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T9_V1	MP	CP

DRAWING NUMBER:
PeakEcology/DB2/BBS22/T9_V1

peakecology LIMITED ECOLOGICAL CONSULTANTS Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
	PROJECTION	BNG
	PLOT SIZE	A3
	SCALE	1:7,250



Survey Information

 Onshore study area (21/08/22)

----- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
(x)	Bird singing	—	Same bird
(X)	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Tree Creeper
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PROJECT TITLE
DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

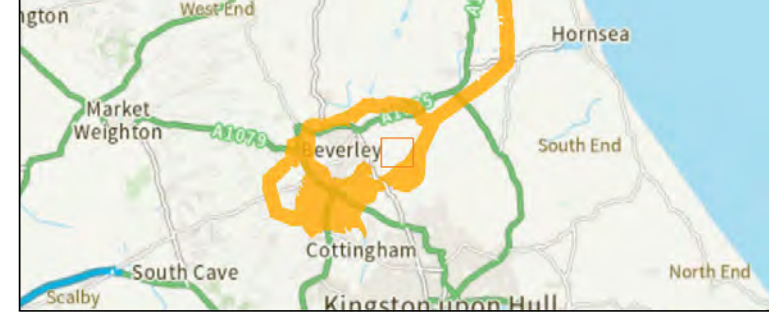
DRAWING TITLE
Figure 22. Transect 9, Visit 1 - 21/04/22 (06:10 - 11:20)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T9_V1	MP	CP

DRAWING NUMBER:
PeakEcology/DB2/BBS22/T9_V1

Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT.
www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250



Survey Information

 Onshore study area (21/08/22)

..... Transects

x Bird - alarm call

x Bird sighting

x Bird calling

(x) Bird singing

 Bird - aggressive encounter

→ Red

→ Amber

→ Green

—— Same bird

----- In song at same
time

Additional Information

Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species

CB - Corn Bunting
CU - Curlew
GR - Greenfinch
HG - Herring Gull
HM - House Martin
HS - House Sparrow
L - Lapwing
LI - Linnet
M - Mistle Thrush
P - Grey Partridge
S - Skylark
SG - Starling
SI - Swift
TS - Tree Sparrow
Y - Yellowhammer
YW - Yellow Wagtail

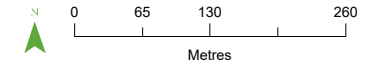
Amber listed species

BF - Bullfinch
BH - Black-headed Gull
CM - Common Gull
CN - Common Tern
D - Dunnock
GA - Gadwall
GB - Great Black-backed Gull
GJ - Greylag Goose
GK - Greenshank
GY - Garganey
K - Kestrel
KF - Kingfisher
LB - Lesser Black-backed Gull
MA - Mallard
MH - Moorhen
MP - Meadow Pipit
MR - Marsh Harrier
MS - Mute Swan
Q - Quail
RB - Reed Bunting
RO - Rook
SD - Stock Dove
SH - Sparrowhawk
SN - Snipe
ST - Song Thrush
SU - Shelduck
SW - Sedge Warbler
W - Wheatear
WH - Whitethroat
WP - Wood Pigeon
WR - Wren
WW - Willow Warbler

Green listed species

- B. - Blackbird
- BC - Blackcap
- BO - Barn Owl
- BT - Blue Tit
- BZ - Buzzard
- C. - Carrion Crow
- CA - Cormorant
- CC - Chiffchaff
- CD - Collared Dove
- CH - Chaffinch
- CT - Coal Tit
- CW - Cetti's Warbler
- ET - Little Egret
- G. - Green Woodpecker
- GC - Goldcrest
- GO - Goldfinch
- GP - Golden Plover
- GS - Great Spotted Woodpecker
- GT - Great Tit
- H. - Grey Heron
- HY - Hobby
- J. - Jay
- JD - Jackdaw
- LT - Long-tailed Tit
- LW - Lesser Whitethroat
- MG - Magpie
- PH - Pheasant
- PW - Pied Wagtail
- R. - Robin
- RL - Red-legged Partridge
- RW - Reed Warbler
- SL - Swallow
- SM - Sand Martin
- TC - Treecreeper

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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

Figure 23. Transect 9, Visit 2 - 19/05/22 (05:10 - 11:00)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T9_V2	MP	CP

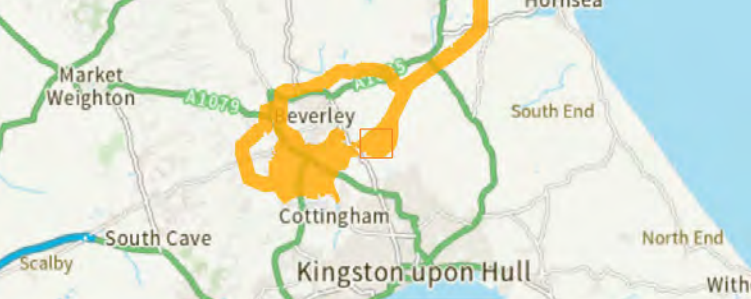
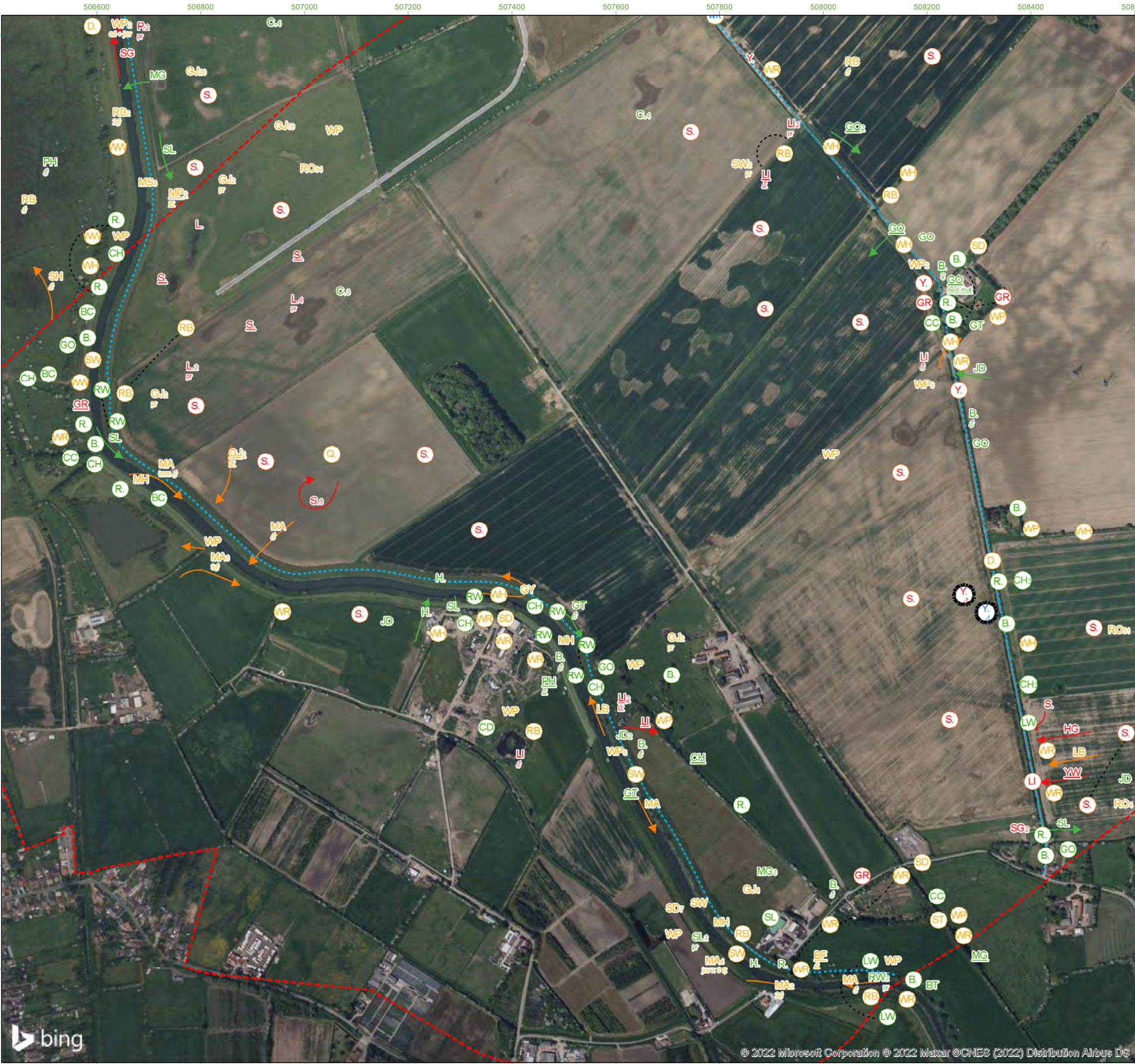
DRAWING NUMBER:

PeakEcology/DB2/BBS22/T9_V2

peakecology LIMITED
ECOLOGICAL CONSULTANTS

**Arden House,
Deepdale Business Park,
Bakewell,
Derbyshire.
DE45 1GT.**

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250



Survey Information

 Onshore study area (21/08/22)

- - - - - Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
(x)	Bird singing	—	Same bird
(X)	Bird - aggressive encounter	- - - - -	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species	Amber listed species	Green listed species
CB - Corn Bunting	BF - Bullfinch	B - Blackbird
CU - Curlew	BH - Black-headed Gull	BC - Blackcap
GR - Greenfinch	CM - Common Gull	BO - Barn Owl
HG - Herring Gull	CN - Common Tern	BT - Blue Tit
HM - House Martin	D - Dunnock	BZ - Buzzard
HS - House Sparrow	GA - Gadwall	C - Carrion Crow
L - Lapwing	GB - Great Black-backed Gull	CA - Cormorant
LI - Linnet	GJ - Greylag Goose	CC - Chiffchaff
M - Mistle Thrush	GK - Greenshank	CD - Collared Dove
P - Grey Partridge	GY - Garganey	CH - Chaffinch
S - Skylark	K - Kestrel	CT - Coal Tit
SG - Starling	KF - Kingfisher	CW - Cetti's Warbler
SI - Swift	LB - Lesser Black-backed Gull	ET - Little Egret
TS - Tree Sparrow	MA - Mallard	G - Green Woodpecker
Y - Yellowhammer	MH - Moorhen	GC - Goldcrest
YW - Yellow Wagtail	MP - Meadow Pipit	GO - Goldfinch
	MR - Marsh Harrier	GP - Golden Plover
	MS - Mute Swan	GS - Great Spotted Woodpecker
	Q - Quail	GT - Great Tit
	RB - Reed Bunting	H - Grey Heron
	RO - Rook	HY - Hobby
	SD - Stock Dove	J - Jay
	SH - Sparrowhawk	JD - Jackdaw
	SN - Snipe	LT - Long-tailed Tit
	ST - Song Thrush	LW - Lesser Whitethroat
	SU - Shelduck	MG - Magpie
	SW - Sedge Warbler	PH - Pheasant
	W - Wheatear	PW - Pied Wagtail
	WH - Whitethroat	R - Robin
	WP - Wood Pigeon	RL - Red-legged Partridge
	WR - Wren	RW - Reed Warbler
	WW - Willow Warbler	SL - Swallow
		SM - Sand Martin
		TC - Tree Creeper

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0 65 130 260 Metres

PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

Figure 24. Transect 9, Visit 2 - 19/05/22 (05:10 - 11:00)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T9_V2	MP	CP

DRAWING NUMBER:

PeakEcology/DB2/BBS22/T9_V2

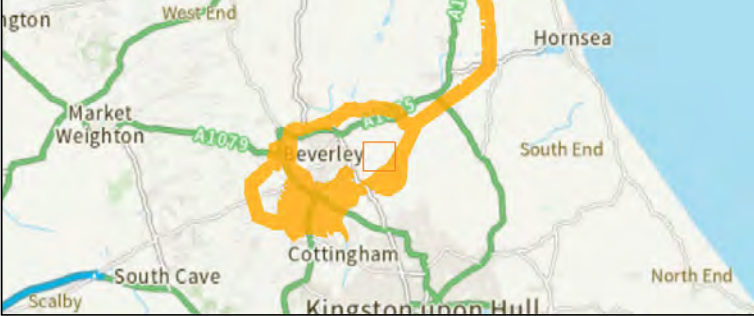
peakecology LIMITED

ECOLOGICAL CONSULTANTS

Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT.

www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250



Survey Information

- Onshore study area (21/08/22)**
- Transects**
- x Bird - alarm call
 - x Bird sighting
 - x Bird calling
 - (x) Bird singing
 - (X) Bird - aggressive encounter
- Coloured Arrows**
- Red
 - Amber
 - Green
 - Same bird
 - In song at same time

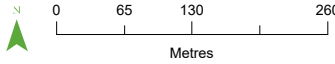
Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species	Amber listed species	Green listed species
CB - Corn Bunting	BF - Bullfinch	B - Blackbird
CU - Curlew	BH - Black-headed Gull	BC - Blackcap
GR - Greenfinch	CM - Common Gull	BO - Barn Owl
HG - Herring Gull	CN - Common Tern	BT - Blue Tit
HM - House Martin	D - Dunnock	BZ - Buzzard
HS - House Sparrow	GA - Gadwall	C - Carrion Crow
L - Lapwing	GB - Great Black-backed Gull	CA - Cormorant
LI - Linnet	GJ - Greylag Goose	CC - Chiffchaff
M - Mistle Thrush	GK - Greenshank	CD - Collared Dove
P - Grey Partridge	GY - Garganey	CH - Chaffinch
S - Skylark	K - Kestrel	CT - Coal Tit
SG - Starling	KF - Kingfisher	CW - Cetti's Warbler
SI - Swift	LB - Lesser Black-backed Gull	ET - Little Egret
TS - Tree Sparrow	MA - Mallard	G - Green Woodpecker
Y - Yellowhammer	MH - Moorhen	GC - Goldcrest
YW - Yellow Wagtail	MP - Meadow Pipit	GO - Goldfinch
	MR - Marsh Harrier	GP - Golden Plover
	MS - Mute Swan	GS - Great Spotted Woodpecker
	Q - Quail	GT - Great Tit
	RB - Reed Bunting	H - Grey Heron
	RO - Rook	HY - Hobby
	SD - Stock Dove	J - Jay
	SH - Sparrowhawk	JD - Jackdaw
	SN - Snipe	LT - Long-tailed Tit
	ST - Song Thrush	LW - Lesser Whitethroat
	SU - Shelduck	MG - Magpie
	SW - Sedge Warbler	PH - Pheasant
	W - Wheatear	PW - Pied Wagtail
	WH - Whitethroat	R - Robin
	WP - Wood Pigeon	RL - Red-legged Partridge
	WR - Wren	RW - Reed Warbler
	WW - Willow Warbler	SL - Swallow
		SM - Sand Martin
		TC - Treecreeper

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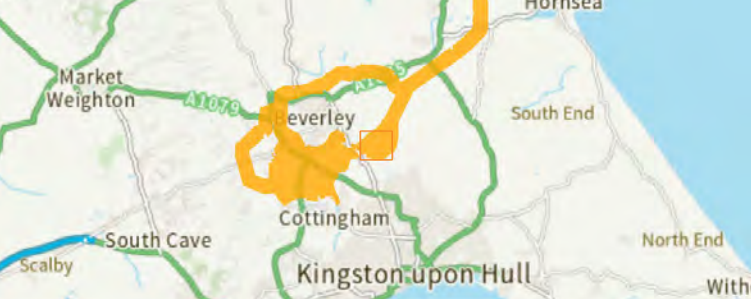
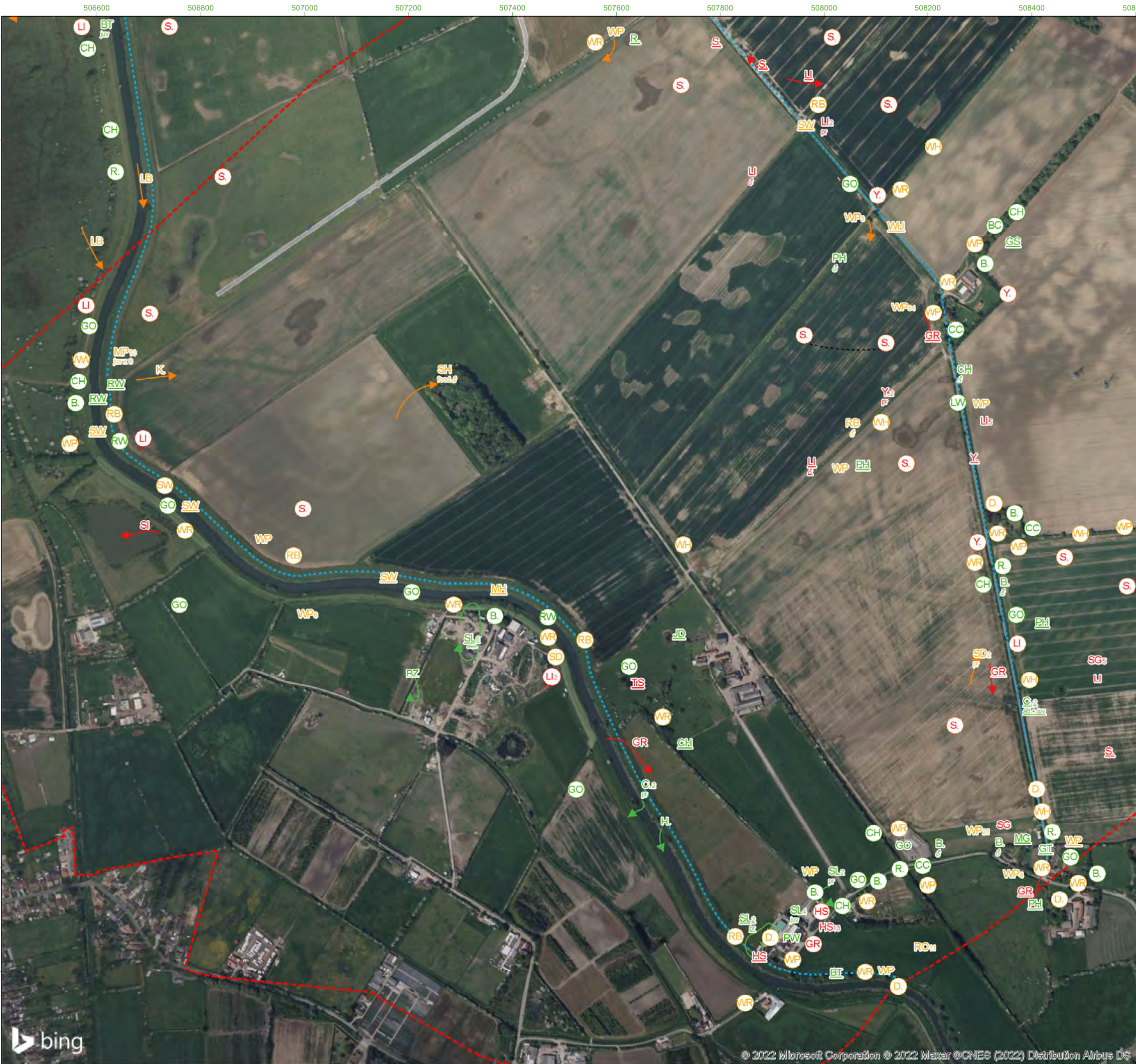
PROJECT TITLE
DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE
Figure 25. Transect 9, Visit 3 - 22/06/22 (04:50 - 10:15)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T9_V3	MP	CP

DRAWING NUMBER:
PeakEcology/DB2/BBS22/T9_V3

peakecology LIMITED ECOLOGICAL CONSULTANTS www.peakecology.co.uk	Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT.	
	DATUM	OSGB
	PROJECTION	BNG
	PLOT SIZE	A3
SCALE		1:7,250



Survey Information

 Onshore study area (21/08/22)

---- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
⊗	Bird singing	—	Same bird
⊗	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Treecreeper
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PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

Figure 26. Transect 9, Visit 3 - 22/06/22 (04:50 - 10:15)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T9_V3	MP	CP

DRAWING NUMBER:

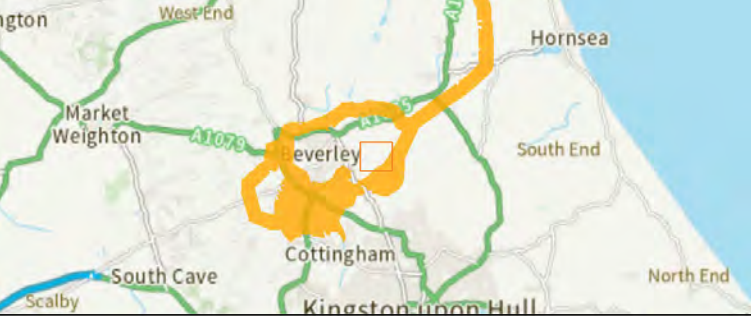
PeakEcology/DB2/BBS22/T9_V3

peakecology LIMITED

ECOLOGICAL CONSULTANTS

Arden House,
Deepdale Business Park,
Bakewell,
Derbyshire.
DE45 1GT.
www.peakecology.co.uk

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:7,250



Survey Information

- Onshore study area (21/08/22)**
- Transects**
- x Bird - alarm call
 - x Bird sighting
 - x Bird calling
 - (x) Bird singing
 - (X) Bird - aggressive encounter
- Red**
- Amber**
- Green**
- Same bird**
- In song at same time**

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species	Amber listed species	Green listed species
CB - Corn Bunting	BF - Bullfinch	B - Blackbird
CU - Curlew	BH - Black-headed Gull	BC - Blackcap
GR - Greenfinch	CM - Common Gull	BO - Barn Owl
HG - Herring Gull	CN - Common Tern	BT - Blue Tit
HM - House Martin	D - Dunnock	BZ - Buzzard
HS - House Sparrow	GA - Gadwall	C - Carrion Crow
L - Lapwing	GB - Great Black-backed Gull	CA - Cormorant
LI - Linnet	GJ - Greylag Goose	CC - Chiffchaff
M - Mistle Thrush	GK - Greenshank	CD - Collared Dove
P - Grey Partridge	GY - Garganey	CH - Chaffinch
S - Skylark	K - Kestrel	CT - Coal Tit
SG - Starling	KF - Kingfisher	CW - Cetti's Warbler
SI - Swift	LB - Lesser Black-backed Gull	ET - Little Egret
TS - Tree Sparrow	MA - Mallard	G - Green Woodpecker
Y - Yellowhammer	MH - Moorhen	GC - Goldcrest
YW - Yellow Wagtail	MP - Meadow Pipit	GO - Goldfinch
	MR - Marsh Harrier	GP - Golden Plover
	MS - Mute Swan	GS - Great Spotted Woodpecker
	Q - Quail	GT - Great Tit
	RB - Reed Bunting	H - Grey Heron
	RO - Rook	HY - Hobby
	SD - Stock Dove	J - Jay
	SH - Sparrowhawk	JD - Jackdaw
	SN - Snipe	LT - Long-tailed Tit
	ST - Song Thrush	LW - Lesser Whitethroat
	SU - Shelduck	MG - Magpie
	SW - Sedge Warbler	PH - Pheasant
	W - Wheatear	PW - Pied Wagtail
	WH - Whitethroat	R - Robin
	WP - Wood Pigeon	RL - Red-legged Partridge
	WR - Wren	RW - Reed Warbler
	WW - Willow Warbler	SL - Swallow
		SM - Sand Martin
		TC - Treecreeper

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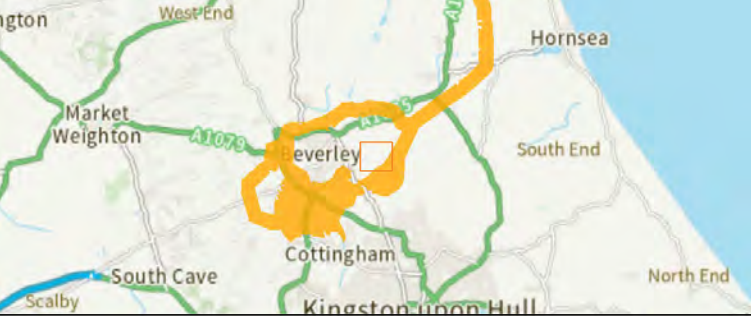
PROJECT TITLE
DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE
Figure 27. Transect 9, Visit 4 - 13/07/22 (05:00 - 10:00)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T9_V4	MP	CP

DRAWING NUMBER:
PeakEcology/DB2/BBS22/T9_V4

peakecology LIMITED ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:7,250



Survey Information

 Onshore study area (21/08/22)

----- Transects

x	Bird - alarm call	→	Red
x	Bird sighting	→	Amber
x	Bird calling	→	Green
(x)	Bird singing	—	Same bird
(X)	Bird - aggressive encounter	-----	In song at same time

Additional Information
Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

Red Status = Red, Amber Status = Amber, Green/No Status = Green

Where more than one bird is observed then the size of the flock is indicated in text alongside the record.

Red listed species CB - Corn Bunting CU - Curlew GR - Greenfinch HG - Herring Gull HM - House Martin HS - House Sparrow L - Lapwing LI - Linnet M - Mistle Thrush P - Grey Partridge S - Skylark SG - Starling SI - Swift TS - Tree Sparrow Y - Yellowhammer YW - Yellow Wagtail	Amber listed species BF - Bullfinch BH - Black-headed Gull CM - Common Gull CN - Common Tern D - Dunnock GA - Gadwall GB - Great Black-backed Gull GJ - Greylag Goose GK - Greenshank GY - Garganey K - Kestrel KF - Kingfisher LB - Lesser Black-backed Gull MA - Mallard MH - Moorhen MP - Meadow Pipit MR - Marsh Harrier MS - Mute Swan Q - Quail RB - Reed Bunting RO - Rook SD - Stock Dove SH - Sparrowhawk SN - Snipe ST - Song Thrush SU - Shelduck SW - Sedge Warbler W - Wheatear WH - Whitethroat WP - Wood Pigeon WR - Wren WW - Willow Warbler	Green listed species B - Blackbird BC - Blackcap BO - Barn Owl BT - Blue Tit BZ - Buzzard C - Carrion Crow CA - Cormorant CC - Chiffchaff CD - Collared Dove CH - Chaffinch CT - Coal Tit CW - Cetti's Warbler ET - Little Egret G - Green Woodpecker GC - Goldcrest GO - Goldfinch GP - Golden Plover GS - Great Spotted Woodpecker GT - Great Tit H - Grey Heron HY - Hobby J - Jay JD - Jackdaw LT - Long-tailed Tit LW - Lesser Whitethroat MG - Magpie PH - Pheasant PW - Pied Wagtail R - Robin RL - Red-legged Partridge RW - Reed Warbler SL - Swallow SM - Sand Martin TC - Treecreeper
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0 65 130 260
Metres

PROJECT TITLE

DOGGER BANK SOUTH BREEDING BIRD SURVEY 2022

DRAWING TITLE

Figure 29. Transect 9, Visit 5 - 17/08/22 (06:00 - 11:00)

VER	DATE	REMARKS	Drawn	Checked
1.3	06/10/22	T9_V5	MP	CP

DRAWING NUMBER:

PeakEcology/DB2/BBS22/T9_V5

peakecology LIMITED ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:7,250

