

A1 in Northumberland: Morpeth to Ellingham

Scheme Number: TR010041

6.7 Environmental Statement – Appendix 9.26 Wintering Bird Verification Survey Report

Part A

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

June 2020

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009**

**The A1 in Northumberland: Morpeth to Ellingham
Development Consent Order 20[xx]**

Environmental Statement - Appendix

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EXECUTIVE SUMMARY

WSP UK Ltd was commissioned to complete a wintering bird verification survey on behalf of Highways England, to support the planning application for the proposed A1 in Northumberland: Morpeth to Ellingham, Part A: Morpeth to Felton (Part A).

The survey aimed to establish the current wintering bird populations adjacent to Part A, in order to ensure that the impact assessment and mitigation informed by the original baseline survey results from surveys conducted in 2016-2017 remained valid. The survey involved undertaking nine wintering bird transects between 11th February and 14th February 2020. The survey was carried out in accordance with current good practice guidance survey methodology using the British Trust for Ornithology's (BTO's) Wintering Farmland Bird Survey methodology and generic wintering bird monitoring methods.

A total of 49 species were recorded on or over the Survey Area during the wintering bird verification survey. Of these species, 25 are legally protected or species of conservation concern, including two species listed on Annex 1 of the EC Birds Directive, three Schedule 1 species, 12 Species of Principal Importance (SPI) under the Natural Environment and Rural Communities (NERC) Act 2006, 14 Birds of Conservation Concern (BoCC) red list species and nine BoCC amber list species.

The assemblage of species within the dataset were from a wide range of habitats. The birds recorded were in low numbers, with occasional larger flocks of winter thrushes recorded. However, numbers of farmland birds were generally lower than expected given the prevalence of farmland habitat within the Survey Area and the results of the baseline surveys.

The verification survey recorded fewer bird species and in lower numbers compared to the baseline surveys, as anticipated with a comparatively lower survey effort both spatially and temporally. Birds recorded during the verification survey were those typically of arable, woodland and garden habitats, with a relatively even distribution of records across the Survey Area, in accordance with the baseline results. Overall the majority of notable bird species recorded during the verification survey were of birds flying over, rather than utilising the habitats within and adjacent to Part A. The impact assessment and associated mitigation detailed in **Chapter 9: Biodiversity, Volume 2** of the Environmental Statement (ES) (**Application Document Reference: TR010041/APP/6.2**) for Part A remains suitable and proportionate.

1. INTRODUCTION

1.1. PROJECT BACKGROUND

- 1.1.1. Wintering bird verification surveys were completed in February 2020 in relation to Part A: Morpeth to Felton (hereafter referred to as Part A).
- 1.1.2. Part A aims to increase capacity along an approximately 12.6 km section of the existing A1 between Morpeth and Felton in Northumberland. It includes 6.5 km of on-line widening and 6.1 km of new off-line highway. Part A also aims to improve journey times and safety along the route. The boundary of Part A is taken as the Order Limits of Part A during the construction phase, as shown in **Figure 1** of this report.

1.2. ECOLOGICAL BACKGROUND

- 1.2.1. A desk study was undertaken in 2016 (**Ref. 1**) prior to completion of wintering bird surveys undertaken between early October 2016 and early February 2017 (**Ref. 2**).

1.3. BRIEF AND OBJECTIVES

- 1.3.1. To provide current baseline data regarding the bird community on the Site in 2020 and verify that the mitigation detailed within **Chapter 9: Biodiversity, Volume 2** of this ES (**Application Document Reference: TR010041/APP/6.2**), for Part A remains suitable and sufficient, WSP UK Ltd was commissioned to complete one wintering bird verification survey for Part A. The verification survey was to provide information on the following legally protected or notable species:
- a.** Schedule 1 of the Wildlife and Countryside Act (WaCA) 1981, as amended (**Section 4.1.3** below);
 - b.** Annex 1 of the European Community (EC) Birds Directive (**Section 4.1.1** below);
 - c.** Natural Environment and Rural Communities (NERC) Act 2006 Section 41 species (**Section 4.1.4** below);
 - d.** Local Biodiversity Action Plan 'Priority' species (**Section 4.2.5** below);
 - e.** Birds of Conservation Concern (BoCC) Red or Amber listed species (**Ref. 3**); or
 - f.** Other locally notable species, such as those listed in the citations of the River Coquet and Coquet Valley Woodlands Site of Special Scientific Interest (SSSI), and Longhorsley Moor SSSI.
- 1.3.2. The results of the above survey are contained within this report.

2. METHODS

2.1. WINTERING BIRD SURVEY

- 2.1.1. To inform an evaluation of the on-site habitats for bird species, one wintering bird validation survey visit was completed between 11th and 14th February 2020. The survey was carried out in accordance with current good practice guidance survey methodology, namely the British Trust for Ornithology's (BTO's) Wintering Farmland Bird Survey methodology (**Ref. 4**), and generic wintering bird monitoring methods detailed in *Gilbert et al.* (**Ref. 5**).
- 2.1.2. The Survey Area covers the Order Limits of Part A during construction plus an additional 100 m buffer. Due to the large size of the Survey Area, survey visits were spread over a period of four consecutive days. Two surveyors covered separate transects concurrently on two days, to minimise the time taken to complete each visit with the prevailing weather conditions. A summary of survey dates, times and weather conditions is provided below in **Table 2-1**.
- 2.1.3. Surveys commenced approximately an hour after dawn and finished an hour before dusk. Survey visits were planned to avoid adverse weather conditions such as heavy rain and strong wind, as this can reduce bird activity and detectability.
- 2.1.4. During each visit, surveyors walked along each pre-determined transect route at a slow walking pace. All birds heard or seen with the aid of binoculars were recorded. Registrations, which are records of individual birds (identified either by call, song or visually), were recorded on field maps using standard BTO species codes (refer to **Appendix A** of this report). Care was taken to avoid double counting. Longer periods of observations were made in areas of high bird activity. Bird registrations are shown on **Figures 2** to **Figure 10** of this report.
- 2.1.5. During each of the survey visits the following details were recorded:
- a.** Bird numbers, species, age and sex; and
 - b.** Bird behaviour, e.g. in flight, singing, calling or alarm calling.

2.2. DATES OF SURVEY AND PERSONNEL

- 2.2.1. The wintering bird verification survey visits were completed by competent surveyors with eight years' experience of ornithological survey, including wintering bird surveys.
- 2.2.2. Dates of survey and weather conditions are given in **Table 2-1** below.

Table 2-1 - Wintering Bird Survey Weather Conditions

Transect	Date	Start Temperature (°C)	Cloud Cover (0-8 Oktas)	Wind Speed (Beaufort scale)	Wind Direction	Rain	Visibility
1	14/02/20	2	8	1	SW	None	Good
2	13/02/20	4	8	3	N	Drizzle	Good
3	12/02/20	3	4	5	W	None	Good
4	11/02/20	4	0	5	W	Moderate	Good
5	13/02/20	4	8	3	N	Drizzle	Good
6	13/02/20	2	8	2	N	Light	Good
7	12/02/20	1	4	4	W	None	Good
8	12/02/20	3	2	4	W	None	Clear
9	12/02/20	4	2	5	W	None	Good

2.3. NOTES AND LIMITATIONS

- 2.3.1. No further site-specific limitations were applicable to this survey. Whilst every effort has been made to detect all species present some bird species are more difficult to detect due to their shy or secretive nature and therefore may have gone undetected by this survey. As a constraint applicable to all bird surveys this is not considered to place significant constraints upon interpretation of the results for this Site.
- 2.3.2. Access restrictions resulted in some incomplete coverage of the Survey Areas. However, the majority of the Survey Area was covered, and the areas to which access was restricted throughout the survey period were mostly small and relatively isolated. Given the reduced bird activity recorded, access restrictions are therefore not considered a significant limitation on the survey results.
- 2.3.3. Although surveys were planned to avoid adverse weather where possible, some surveys were occasionally undertaken in suboptimal wind conditions (**Ref. 3**). Affected transects were repeated and this was not considered to have significantly affected the survey results, with bird activity remaining relatively constant.

3. RESULTS AND EVALUATION

3.1. WINTERING BIRD SURVEYS 2016/17

- 3.1.1. A total of 79 bird species, inclusive of incidental observations, were recorded during the original wintering bird surveys. These included 45 species which are legally protected or species of conservation concern.
- 3.1.2. The numbers of birds recorded within each category are listed below, it should be noted that categories are not exclusive and a species can be listed in more than one conservation category (for example listed as both a Species of Principal Importance (SPI) in accordance with the NERC Act 2006 (**Ref. 6**) and a UK Biodiversity Action Plan (UKBAP) (**Ref. 7**) species and as either a red or amber list BoCC (**Ref. 3**).
- a. Four species listed on Annex 1 of the EC Birds Directive (**Ref. 8**);
 - b. Seven species listed on Schedule 1 of the WaCA 1981 (as amended) (**Ref. 9**);
 - c. Seventeen species listed as SPI in accordance with Section 41 of the NERC Act 2006 (**Ref. 6**) (also UKBAP (**Ref. 7**) species);
 - d. Nineteen BoCC red list species (**Ref. 3**); and
 - e. Twenty species on the BoCC amber list (**Ref. 3**).
- 3.1.3. It should be noted that bird species can appear on one or more of the schedules/lists identified above.

3.2. WINTERING BIRD VERIFICATION SURVEY 2020

- 3.2.1. A total of 49 species were recorded on or over Part A during the wintering bird verification survey. This included 25 species which are legally protected or species of conservation concern.
- a. Two species listed on Annex 1 of the EC Birds Directive (**Ref. 8**);
 - b. Three species listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended) (**Ref. 9**);
 - c. 12 species listed as SPI in accordance with Section 41 of the NERC Act 2006 (**Ref. 6**) (also UKBAP (**Ref. 7**) species);
 - d. 14 BoCC red list species (**Ref. 3**); and
 - e. Nine BoCC amber list species (**Ref. 3**).
- 3.2.2. The assemblage of species within the dataset were from a wide range of habitats. Birds recorded were in low numbers, with occasional larger flocks of winter thrushes recorded. However, numbers of farmland birds were generally lower than expected given the prevalence of farmland habitat within the Survey Area.

3.3. EVALUATION

- 3.3.1. **Table 3-1** below shows bird species recorded within the Survey Area which are legally protected or of conservation concern (BoCC status). The table indicates the conservation

categories in which each species is listed and lists the peak count for each species and the transect number along which the peak count was recorded:

Table 3-1 - Evaluation Results of Protected and/or Notable Species Recorded within the Survey Area

Common Name	Latin Name	WaCA Schedule 1	NERC Section 41	BoCC Red List	BoCC Amber List	UKBAP	EC Birds Annex 1	Peak Count	Peak Count Transect Number	Description of Species Activity, Location/s within the Survey Area Where Applicable
Black-headed gull	<i>Chroicocephalus ridibundus</i>				✓			1	1	Recorded foraging in grazing paddock.
Bullfinch	<i>Pyrrhula pyrrhula</i>		✓		✓			2	3	Low numbers present foraging within hedgerows.
Common Gull	<i>Larus canus</i>				✓			7	9	Recorded circling over arable fields.
Dunnock	<i>Prunella modularis</i>		✓		✓			6	1	Widespread across the Survey Area.
Fieldfare	<i>Turdus pilaris</i>	✓		✓				6	3	Widespread throughout the Survey Area, flying over and foraging within arable fields, typically mixed with redwings.
Golden Plover	<i>Pluvialis apricaria</i>					✓	✓	14	3	One small flock flying west.
Grey Partridge	<i>Perdix perdix</i>		✓	✓		✓		2	2	One pair flushed from hedgerow and flushed into adjacent land parcel.
Grey Wagtail	<i>Motacilla cinerea</i>			✓				1	3	Recorded flying into a small stream.
Herring Gull	<i>Larus argentatus</i>		✓	✓				1	1&3	Individuals recorded flying over the Survey Area.
House Sparrow	<i>Passer domesticus</i>		✓	✓		✓		10	1	Associated with buildings throughout the Survey Area.
Kestrel	<i>Falco tinnunculus</i>				✓	✓		4	3	Individuals spread throughout the Survey Area, foraging above hedgerows.
Lapwing	<i>Vanellus vanellus</i>		✓	✓		✓		5	2	One flock recorded flying over the Survey Area.
Lesser Black-backed Gull	<i>Larus fuscus</i>				✓			3	2&3	Low numbers flying over the Survey Area.
Mallard	<i>Anas platyrhynchos</i>				✓			117	1	Concentrated on one waterbody.
Marsh Tit	<i>Poecile palustris</i>		✓	✓		✓		6	6	Recorded within the River Coquet SSSI woodland to the North of the Survey Area.
Mistle Thrush	<i>Turdus viscivorus</i>			✓		✓		4	4	Low numbers present within hedgerows throughout the Survey Area.
Peregrine	<i>Falco peregrinus</i>	✓				✓	✓	1	4	One individual flying west over the Survey Area.

Common Name	Latin Name	WaCA Schedule 1	NERC Section 41	BoCC Red List	BoCC Amber List	UKBAP	EC Birds Annex 1	Peak Count	Peak Count Transect Number	Description of Species Activity, Location/s within the Survey Area Where Applicable
Redwing	<i>Turdus iliacus</i>	✓		✓				123	3	Small to medium sized flocks were widespread, flying over and foraging within the Survey Area.
Reed Bunting	<i>Emberiza schoeniclus</i>		✓		✓	✓		2	3	Only two individuals were recorded in the South of the Survey Area.
Skylark	<i>Alauda arvensis</i>		✓	✓		✓		4	3	Very low numbers recorded in the centre of the Survey Area. Individuals were recorded flying over.
Song Thrush	<i>Turdus philomelos</i>			✓		✓		2	6	Very low numbers were present throughout the Survey Area.
Starling	<i>Sturnus vulgaris</i>		✓	✓		✓		6	1&7	Low numbers recorded throughout the Survey Area.
Stock Dove	<i>Columba oenas</i>				✓			2	1	Low numbers observed flying over the Survey Area.
Tree Sparrow	<i>Passer montanus</i>		✓	✓		✓		23	1	Low numbers typically associated with dwellings.
Yellowhammer	<i>Emberiza citrinella</i>		✓	✓		✓		2	4	Low numbers, more prevalent in the South of the Survey Area.

WINTERING BIRD RESULTS COMPARISON

- 3.3.2. The verification survey in 2020 recorded fewer bird species and in lower numbers compared to the baseline surveys of 2016/17, and this was expected given the comparatively lower survey effort both spatially and temporally. Birds recorded during the verification survey were those typically of arable, woodland and garden habitats, with a relatively even distribution of records across the survey area and this accords with the baseline results of 2016/17.
- 3.3.3. In 2016/17, passerine species of conservation concern (BoCC) were widely distributed throughout the survey area, with a similar species composition recorded during the verification survey of 2020. However, compared to the numbers recorded the baseline surveys of 2016/17, far fewer individuals were present in 2020. Like the baseline surveys, ubiquitous species, such as dunnock, starling, redwing and fieldfare were amongst the most abundant. However, farmland specialists, such as reed bunting, skylark and yellowhammer, that had previously been recorded in notable numbers, were present in much lower numbers during the verification survey. Previously recorded species such as linnet *Linaria cannabina*, lesser redpoll *Acanthis cabaret* and meadow pipit *Anthus pratensis* were not recorded during the verification survey in 2020.
- 3.3.4. Winter thrushes were widespread during the verification survey; however, numbers were not noteworthy compared to those observed during the baseline surveys in 2016/17. In line with the baseline surveys, tree sparrow was recorded at a number of discreet locations associated with more residential dwellings.
- 3.3.5. Non-passerine species of conservation concern (BoCC) were primarily recorded flying over and not utilising the habitats within the Survey Area during the verification survey. Less than ten individual common and herring gulls were recorded during the verification survey compared to 345 and 650, respectively in the baseline surveys of 2016/17. One small flock of lapwing (five individuals) and golden plover (14 individuals) were recorded flying over the Survey Area.
- 3.3.6. Peregrine falcon was recorded once during the verification survey, and this accorded with the baseline results of 2016/17. One pair of grey partridge were recorded using the habitats within the Survey Area during the verification survey, compared to up to 31 during the baseline surveys.
- 3.3.7. Mallard was the only species of wildfowl recorded during the verification survey. A flock of 110 was present on a single water body on Transect 1. A further 5 species of wildfowl had been recorded during the baseline surveys in 2016/17 that were not present during the verification survey.
- 3.3.8. Overall the majority of notable bird species recorded during the verification survey were of birds flying over, not utilising the habitats within and adjacent to Part A.

4. LEGAL AND PLANNING POLICY CONTEXT

4.1. LEGISLATION

CONSERVATION OF HABITATS AND SPECIES REGULATIONS 2017 (HABITAT REGULATIONS)

- 4.1.1. The Habitat Regulations (**Ref. 10**) Part 1 Regulation 10 (2) & (3) state that local authorities *'must take such steps in the exercise of their functions as they consider appropriate to contribute to...the preservation, maintenance and re-establishment of a sufficient diversity and area of habitat for wild birds in the UK including by means of the upkeep, management and creation of such habitat...'*. The legislation continues to state that economic and recreation requirements must be taken into consideration in considering which measures are appropriate.

WILDLIFE AND COUNTRYSIDE ACT 1981 (AS AMENDED)

- 4.1.2. Under the Wildlife and Countryside Act 1981 (as amended) (**Ref. 9**) all wild birds are protected from killing and injury, and their nests and eggs protected from taking, damage and destruction whilst in use; therefore, recommendations to avoid contravention of this legislation are included within **Section 5** of this report.
- 4.1.3. Additional protection is extended to species listed under Schedule 1 of the Act, meaning it is also an offence to disturb these species at or near the nest, or whilst they have dependent young.

NATURAL ENVIRONMENT AND RURAL COMMUNITIES ACT 2006

- 4.1.4. The NERC Act 2006 (**Ref. 6**) reinforces the duty upon all public authorities, including planning authorities, to have regard for the conservation of biodiversity when discharging their duties. The Act refines the definition of biodiversity conservation, stating that it includes restoring or enhancing a population or habitat. In compliance with Section 41 of the NERC Act (**Ref. 6**) requires the Secretary of State to list habitats and species of principal importance (HPIs and SPIs) for the conservation of biodiversity in England (**Ref. 10** and **Ref. 11**). The habitats and species listed in accordance with Section 41 largely replicate those listed under the UK Post-2010 Biodiversity Framework (formerly known as the UK Biodiversity Action Plan (BAP) (**Ref. 7**) which occur in England (however there are exceptions). These species are 'material considerations' in the planning process.
- 4.1.5. BAPs in the UK have no statutory status but provide a framework for implementing conservation requirements. Furthermore, species listed as Priority species in the UK BAP which are also listed as SPI are afforded a degree of protection under Section 40 of the NERC Act (2006), which states that local authorities have a duty to conserve biodiversity (see above).

4.2. PLANNING POLICY

NATIONAL PLANNING POLICY FRAMEWORK

- 4.2.1. At a national context planning policy is driven by the National Planning Policy Framework (NPPF) (**Ref. 12**). The NPPF sets out, amongst other points, how at an overview level the *'planning system should contribute to and enhance the national and local environment by:*
- ...recognising the wider benefits of ecosystem services;*
minimising impacts on biodiversity and providing net gains in biodiversity where possible, contributing to the Government's commitment to halt the overall decline in biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures...'
- 4.2.2. The NPPF states that this should be achieved through local planning development frameworks and gives recommendations for criteria based policies which recognise the hierarchy of designated sites which range from internationally important habitat, to sites of importance at a local level and ensure that protection is *'commensurate with their status and gives appropriate weight to their importance and the contribution that they make to wider ecological networks.'*
- 4.2.3. A list of principles which local planning authorities should follow when determining planning applications is included in the NPPF which includes the following:
- 'if significant harm resulting from a development cannot be avoided...adequately mitigated, or, as last resort, compensated for, then planning permission should be refused;*
...opportunities to incorporate biodiversity in and around developments should be encouraged;
planning permission should be refused for development resulting in the loss or deterioration of irreplaceable habitats, including ancient woodland...unless the need for, and benefits of, the development in that location clearly outweigh the loss...'
- 4.2.4. Although the NPPF revoked Planning Policy Statement 9 (PPS9), the ODPM circular 06/2005 (**Ref. 13**) originally prepared to accompany PPS9 remains current; this states that *'the presence of a protected species is a material consideration when a planning authority is considering a development proposal'* and also includes confirmation that *'potential effects of a development, on habitats or species listed as priorities in the UK Biodiversity Action Plan (BAP)...are capable of being a material consideration in the...making of planning decisions.'* The circular advises that local authorities should consult Natural England before granting planning permission if the proposals could adversely affect a protected species, this definition of a protected species includes birds.
- 4.2.5. At a local level, the Northumberland local plan recognises the protection of species, biodiversity and wildlife networks.

4.3. OTHER CONSIDERATIONS

BIRDS OF CONSERVATION CONCERN RED AND AMBER LISTS

4.3.1. The UK's leading bird conservation organisations reviewed the most up to date information on the status of birds in the UK and elsewhere in their range to produce the third review of the status of birds which occur regularly in the UK. This is presented as the Birds of Conservation Concern 4 (**Ref. 3**), comprising a 'red list' of species of high conservation concern, an 'amber' list of species of moderate conservation concern, with other species that do not qualify under red or amber list criteria on the green list. To qualify on the red list species may be listed as globally threatened by IUCN, have suffered a historical decline without substantial recent recovery, or a decline of more than 50% in breeding or non-breeding populations, or a 50% contraction in breeding range over 25 years (or the longer term). Amber list species can be those listed as Species of European Conservation Concern, those which have suffered a historical decline but shown significant recent recovery, have shown a decline of between 25 and 50% in breeding or non-breeding populations, or a contraction in breeding range of between 25 and 50% over 25 years (or the longer term) or be rare or localised breeders in the UK, or be species for which 20% of the breeding or non-breeding population is found in the UK.

4.3.2. Red or amber listing does not confer additional protection under legislation or planning policy, however it provides a basis for informing evaluation of a Site and for targeting conservation effort and is a widely used resource for interpreting bird populations.

UK POST-2010 FRAMEWORK BIODIVERSITY ACTION PLANS

4.3.3. The UKBAP (**Ref. 7**) has now been replaced by the UK Post-2010 Biodiversity Framework (**Ref. 11**), however, it contains useful information on how to characterise important species assemblages and habitats which remains relevant.

4.3.4. The national BAP is supplemented by local BAPs which identify habitats and species of particular value or concern at the local level. The Site is covered by the Northumberland LBAP which was revised in 2016 to reflect changes in the conservation statuses of bird species. This revision resulted in the inclusion of a number of species which are not listed as 'species of principal importance' under Section 41 of the NERC Act 2006 (**Ref. 6**), due to declines in the populations of these species since the Act was brought into force. The revised Northumberland list of priority bird species includes a total of 67 species, which are listed in **Appendix B** of this report. Twenty-six of these species are listed as 'species of principal importance' under Section 41 of the NERC Act 2006 (**Ref. 6**).

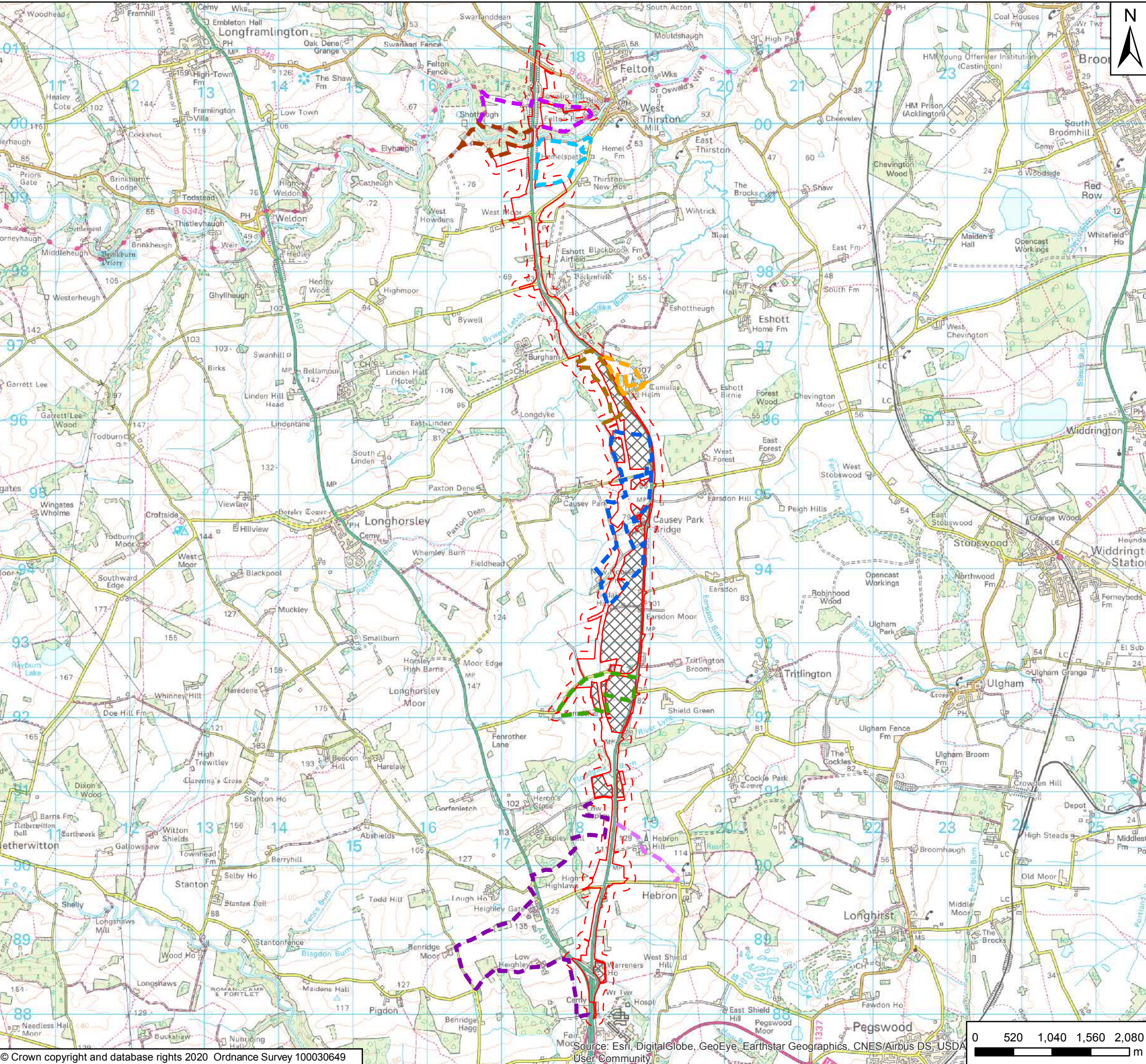
5. CONCLUSIONS

- 5.1.1. In summary a total of 49 species were recorded on or over Part A during the wintering bird verification survey in 2020. This included 25 species which are legally protected or species of conservation concern (**Ref. 3**). The verification survey recorded fewer bird species and in lower numbers compared to the baseline surveys in 2016/17, and this accords with a comparatively lower survey effort both spatially and temporally. Birds recorded during the verification survey were those typically of arable, woodland and garden habitats, with a relatively even distribution of records across the Survey Area, in accordance with the baseline results. Overall the majority of notable bird species recorded during the verification survey were of birds flying over, not utilising the habitats within and adjacent to Part A.
- 5.1.2. Arable land within the verification Survey Area was not observed to support notable numbers of golden plover as in the baseline surveys. It is likely that a combination of weather, ground conditions and crop rotation across the wider landscape are responsible for their absence in 2020, as well as other notable species such as linnet, lesser redpoll and meadow pipit.
- 5.1.3. However, the verification survey confirmed the continuing presence of several species (or species groups) of elevated conservation importance that were noted during the baseline surveys and for which the impact assessment and mitigation within **Chapter 9: Biodiversity, Volume 2** of this ES (**Application Document Reference: TR010041/APP/6.2**) remains valid. Examples include the following:
- a. Minimising site and vegetation clearance (mitigation reference **EM002** of **Chapter 9: Biodiversity, Volume 2** of this ES (**Application Document Reference: TR010041/APP/6.2**) and reinstating hedgerows where possible (mitigation reference **EM040**) would reduce the impacts upon notable farmland wintering bird species such as grey partridge and yellowhammer in arable areas.
 - b. The ecological enhancement of detention basins (mitigation reference **EM043**) would benefit wintering wildfowl such as mallard.
 - c. Notable woodland specialist species such as marsh tit would also benefit from mitigation **EM002**. Such species would also benefit from further woodland planting to create connectivity between existing areas of woodland and compensatory woodland planting (12:1 ratio), as detailed within the **Ancient Woodland Strategy (Appendix 9.21, Volume 7** of this ES (**Application Document Reference: TR010041/APP/6.7**).
- 5.1.4. Overall, the impact assessment and associated mitigation detailed in **Chapter 9: Biodiversity, Volume 2** of this ES (**Application Document Reference: TR010041/APP/6.2**) for Part A remains suitable and proportionate.

REFERENCES

- Ref. 1** Jacobs UK Ltd (2018). A1 Alnwick to Ellingham: Extended Phase 1 Habitat Survey Report. Version 2.
- Ref. 2** Jacobs UK Ltd (2018). A1 in Northumberland: Wintering Bird Survey Report. Version 2.
- Ref. 3** Eaton, A., Aebischer, J., Brown, A.F., Hearn, R.D., Lock, L., Musgrove, A.J., Noble, D.G., Stroud, D.A., and Gregory, R. D., (2015). Birds of Conservation Concern 4: the population status of birds in the United Kingdom, Channel Islands and Isle of Man. *British Birds* 108, 708–746.
- Ref. 4** Gillings, S., Wilson, A.M., Conway, G.J., Vickery, J.A., Fuller, R.J., Beavan, P., Newson, S.E., Noble, D.G. & Toms, M.P. (2008). Winter Farmland Bird Survey. BTO Research Report No. 494. British Trust for Ornithology, Thetford.
- Ref. 5** Gilbert, G., Gibbons, D.W., and Evans, J. (1998). *Bird Monitoring Methods*. RSPB, Sandy.
- Ref. 6** HMSO (2006). Natural Environment and Rural Communities Act.
- Ref. 7** The UK Biodiversity Action Plan; available online: <http://jncc.defra.gov.uk/page-5155>. Accessed on 26/02/2020.
- Ref. 8** European Commission (EC) Directive 2009/147/EC of the Parliament and of the Council of 30 November 2009 on the conservation of wild birds.
- Ref. 9** HMSO (Her Majesty's Stationary Office) (1981). Wildlife and Countryside Act (as amended by the Countryside and Rights of Way Act 2000).
- Ref. 10** HMSO (2017). Conservation of Habitats and Species Regulations 2017.
- Ref. 11** The UK Post-2010 Biodiversity Framework (2011-2020); available online: <https://jncc.gov.uk/our-work/uk-post-2010-biodiversity-framework/>. Accessed on 09/03/2020.
- Ref. 12** Department for Communities and Local Government (2019). National Planning Policy Framework (NPPF).
- Ref. 13** Office of the Deputy Prime Minister (ODPM) (2005). Government Circular: Biodiversity and Geological Conservation – Statutory Obligations and their Impacts within the Planning System.

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Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- Transect 1
- Transect 2
- Transect 3
- Transect 4
- Transect 5
- Transect 6
- Transect 7
- Transect 8
- Transect 9



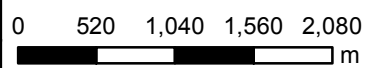
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Rev	Date	Description	By	Chk'd	App'd

Client

Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 1 Site Overview

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Drawing Status	For Information							Suitability	S1
Drawing Number	HE551459	Project	WSP	Originator	WSP	Volume	6.2	Project Ref. No.	70044136
M2F	Location	Type	Role	Number	Revision				
								P01	





Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 1

Species List

- B. - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C. - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D. - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H. - Grey heron
- HG - Herring gull
- HS - House sparrow
- J. - Jay
- JD - Jackdaw
- K. - Kestrel
- L. - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M. - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P. - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R. - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S. - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y. - Yellowhammer

Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 2A Winter Bird Survey Results - Transect 1
Page 1 of 6

Scale	Drawn	Checked	Approved	Authorised
1:2,500	GH	RP	KS	DM

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Drawing Status: For Information			Suitability: S1
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M2F	Location	Type	Role
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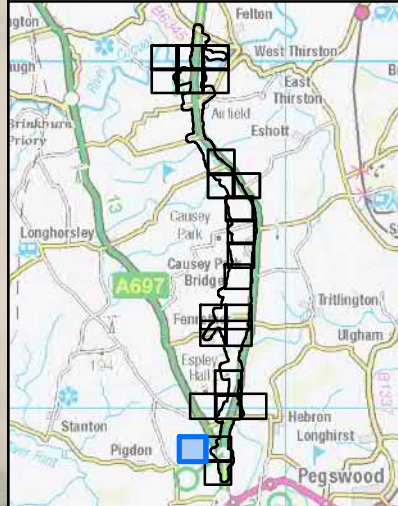
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, User Community



Key	
	Order Limits
	100m Study area
XX	BoCC Red List Species
XX	BoCC Amber List Species
XX	BoCC Green List Species
XX	Introduced Species
➔	Bird in Flight
█	Transect 1

Species List	
B.	Blackbird
BF	Bullfinch
BH	Black-headed gull
BT	Blue tit
BZ	Buzzard
C.	Carrion crow
CH	Chaffinch
CM	Common gull
CT	Coal tit
D.	Dunnock
FF	Fieldfare
GC	Goldcrest
GL	Grey wagtail
GO	Goldfinch
GP	Golden plover
GR	Greenfinch
GT	Great tit
H.	Grey heron
HG	Herring gull
HS	House sparrow
J.	Jay
JD	Jackdaw
K.	Kestrel
L.	Lapwing
LB	Lesser black-backed gull
LT	Long-tailed tit
M.	Mistle thrush
MA	Mallard
MG	Magpie
MT	Marsh tit
NH	Nuthatch
P.	Grey partridge
PE	Peregrine falcon
PH	Pheasant
R.	Robin
RB	Reed bunting
RE	Redwing
RL	Red-legged partridge
RN	Raven
RO	Rook
S.	Skylark
SD	Stock dove
SG	Starling
SH	Sparrowhawk
ST	Song thrush
TC	Treecreeper
TS	Tree sparrow
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

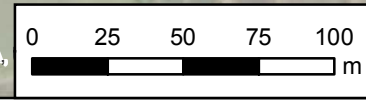
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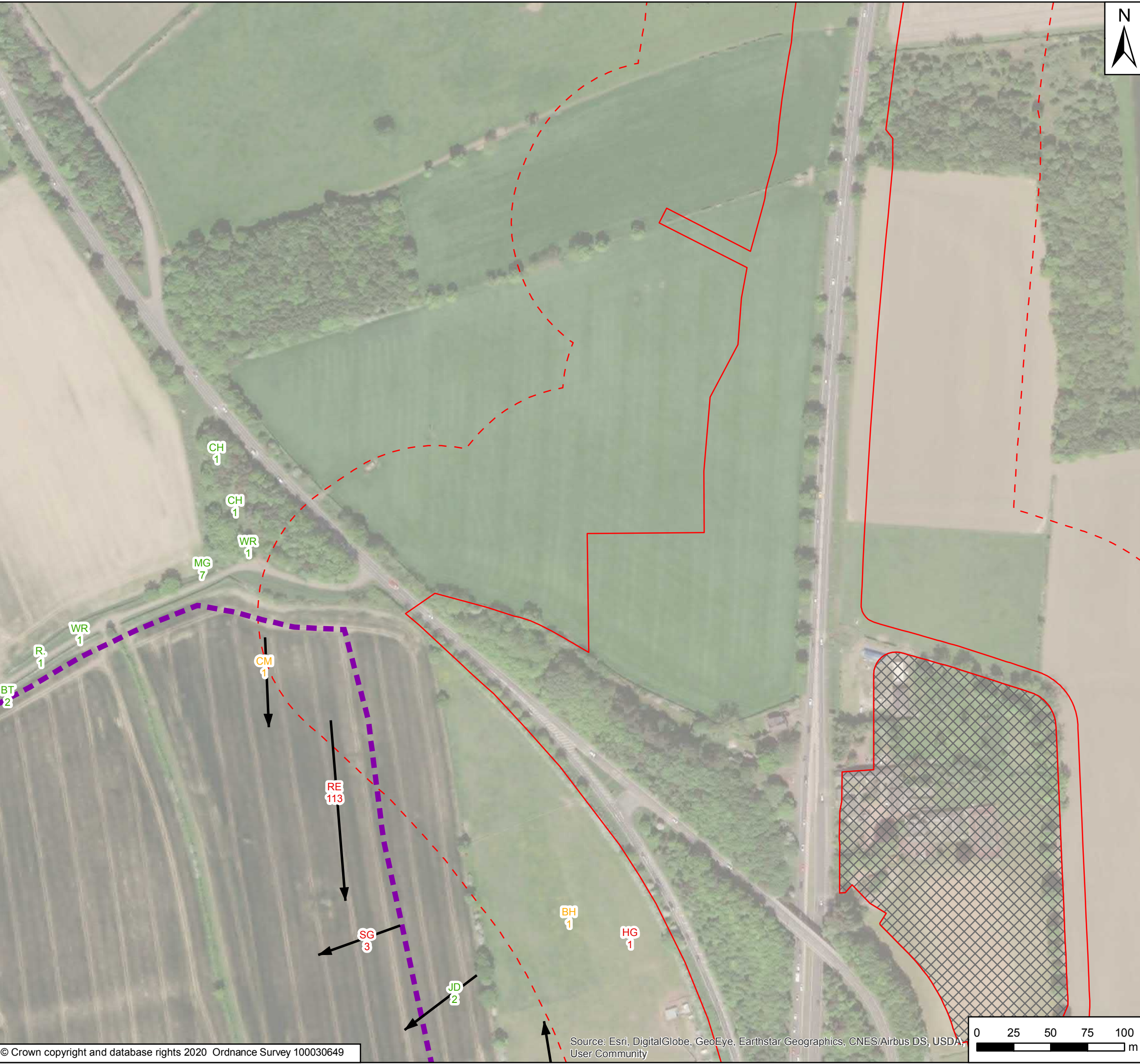
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Drawing Status: For Information
Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551459		WSP	6.2	70044136
Revision				
M2F	P01			
Location	Type	Role	Number	



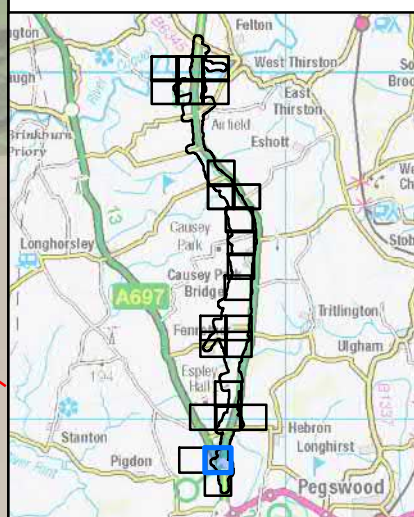


Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- Bird in Flight
- Transect 1

Species List

- B - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H - Grey heron
- HG - Herring gull
- HS - House sparrow
- J - Jay
- JD - Jackdaw
- K - Kestrel
- L - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y - Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

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Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 2C Winter Bird Survey Results - Transect 1
Page 3 of 6

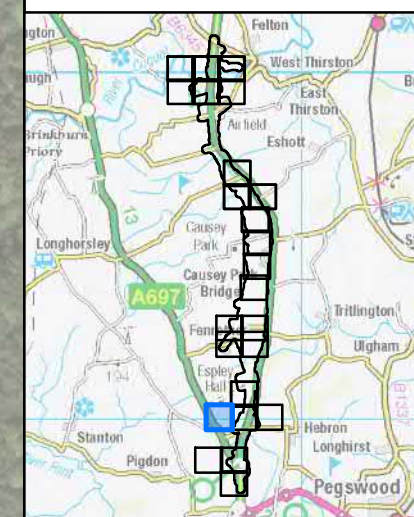
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Drawing Status: For Information
Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551459		WSP	6.2	70044136
Revision	Location	Type	Role	Number
M2F				P01



Key	
	Order Limits
	Areas Excluded from Order Limits
	100m Study area
	BoCC Red List Species
	BoCC Amber List Species
	BoCC Green List Species
	Introduced Species
	Bird in Flight
	Transect 1



Species List	
B.	Blackbird
BF	Bullfinch
BH	Black-headed gull
BT	Blue tit
BZ	Buzzard
C.	Carrion crow
CH	Chaffinch
CM	Common gull
CT	Coal tit
D.	Dunnock
FF	Fieldfare
GC	Goldcrest
GL	Grey wagtail
GO	Goldfinch
GP	Golden plover
GR	Greenfinch
GT	Great tit
H.	Grey heron
HG	Herring gull
HS	House sparrow
J.	Jay
JD	Jackdaw
K.	Kestrel
L.	Lapwing
LB	Lesser black-backed gull
LT	Long-tailed tit
M.	Mistle thrush
MA	Mallard
MG	Magpie
MT	Marsh tit
NH	Nuthatch
P.	Grey partridge
PE	Peregrine falcon
PH	Pheasant
R.	Robin
RB	Reed bunting
RE	Redwing
RL	Red-legged partridge
RN	Raven
RO	Rook
S.	Skylark
SD	Stock dove
SG	Starling
SH	Sparrowhawk
ST	Song thrush
TC	Treecreeper
TS	Tree sparrow
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer

Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

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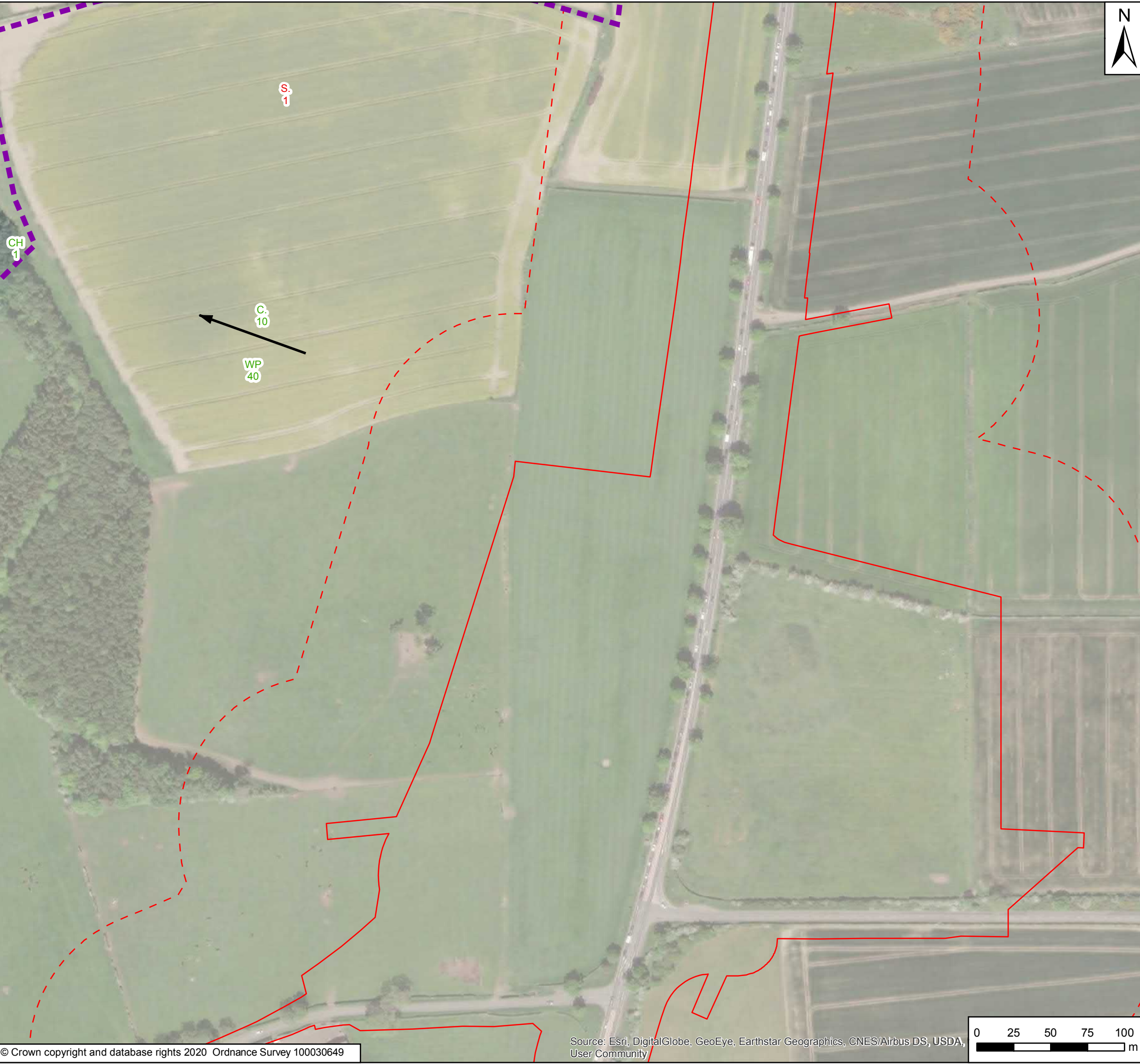
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Page 4 of 6

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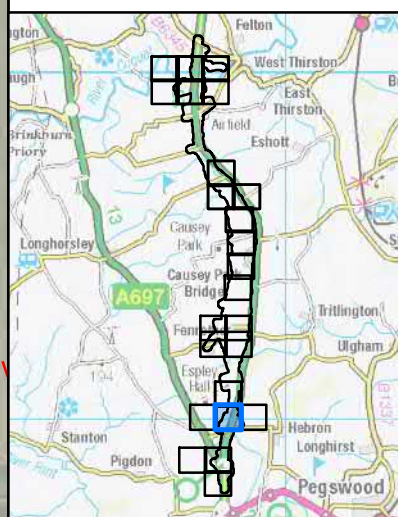
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HE551459	M2F	WSP	6.2	70044136
				Revision
				P01



Key	
	Order Limits
	100m Study area
XX	BoCC Red List Species
XX	BoCC Amber List Species
XX	BoCC Green List Species
XX	Introduced Species
➔	Bird in Flight
	Transect 1

Species List	
B.	Blackbird
BF.	Bullfinch
BH.	Black-headed gull
BT.	Blue tit
BZ.	Buzzard
C.	Carrion crow
CH.	Chaffinch
CM.	Common gull
CT.	Coal tit
D.	Dunnock
FF.	Fieldfare
GC.	Goldcrest
GL.	Grey wagtail
GO.	Goldfinch
GP.	Golden plover
GR.	Greenfinch
GT.	Great tit
H.	Grey heron
HG.	Herring gull
HS.	House sparrow
J.	Jay
JD.	Jackdaw
K.	Kestrel
L.	Lapwing
LB.	Lesser black-backed gull
LT.	Long-tailed tit
M.	Mistle thrush
MA.	Mallard
MG.	Magpie
MT.	Marsh tit
NH.	Nuthatch
P.	Grey partridge
PE.	Peregrine falcon
PH.	Pheasant
R.	Robin
RB.	Reed bunting
RE.	Redwing
RL.	Red-legged partridge
RN.	Raven
RO.	Rook
S.	Skylark
SD.	Stock dove
SG.	Starling
SH.	Sparrowhawk
ST.	Song thrush
TC.	Treecreeper
TS.	Tree sparrow
WP.	Woodpigeon
WR.	Wren
Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

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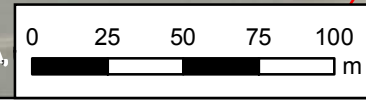
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Page 5 of 6

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Drawing Status: For Information
Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551459	M2F	WSP	6.2	70044136
				Revision
				P01





Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- Bird in Flight
- Transect 1

Species List

- B. - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C. - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D. - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H. - Grey heron
- HG - Herring gull
- HS - House sparrow
- J. - Jay
- JD - Jackdaw
- K. - Kestrel
- L. - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M. - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P. - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R. - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S. - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y. - Yellowhammer

P01	26/02/20	First Issue	GH	RP	KS		
Rev	Date	Description	By	Chk'd	App'd		

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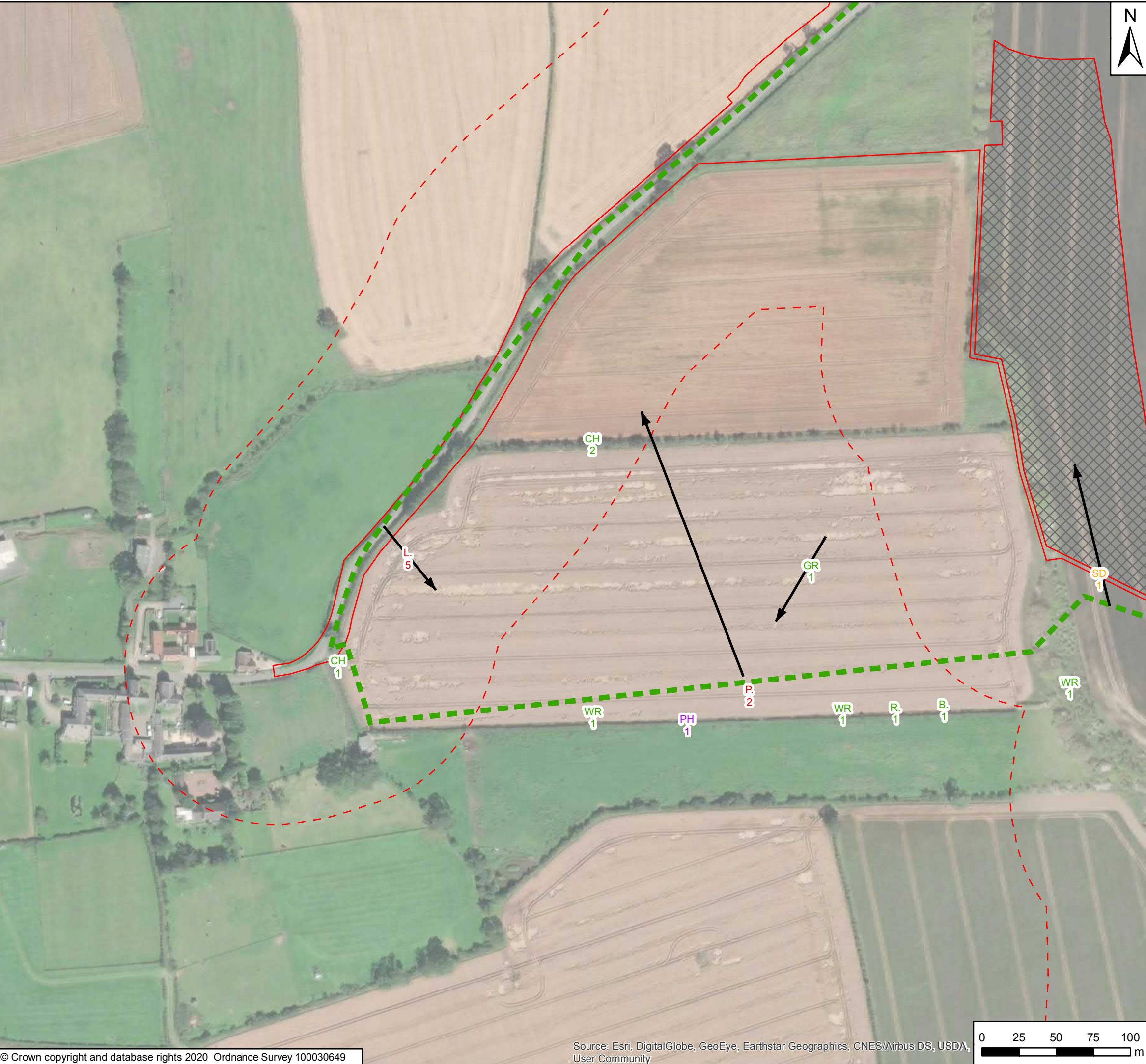
Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 2G Winter Bird Survey Results - Transect 1
Page 6 of 6

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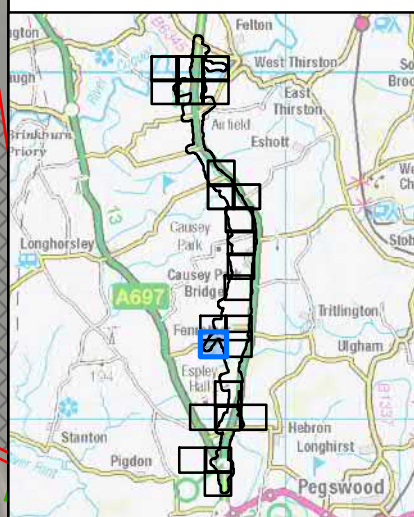


Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 2

Species List

- B - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H - Grey heron
- HG - Herring gull
- HS - House sparrow
- J - Jay
- JD - Jackdaw
- K - Kestrel
- L - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS
Rev	Date	Description	By	Chk'd	App'd

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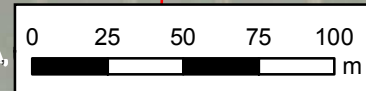
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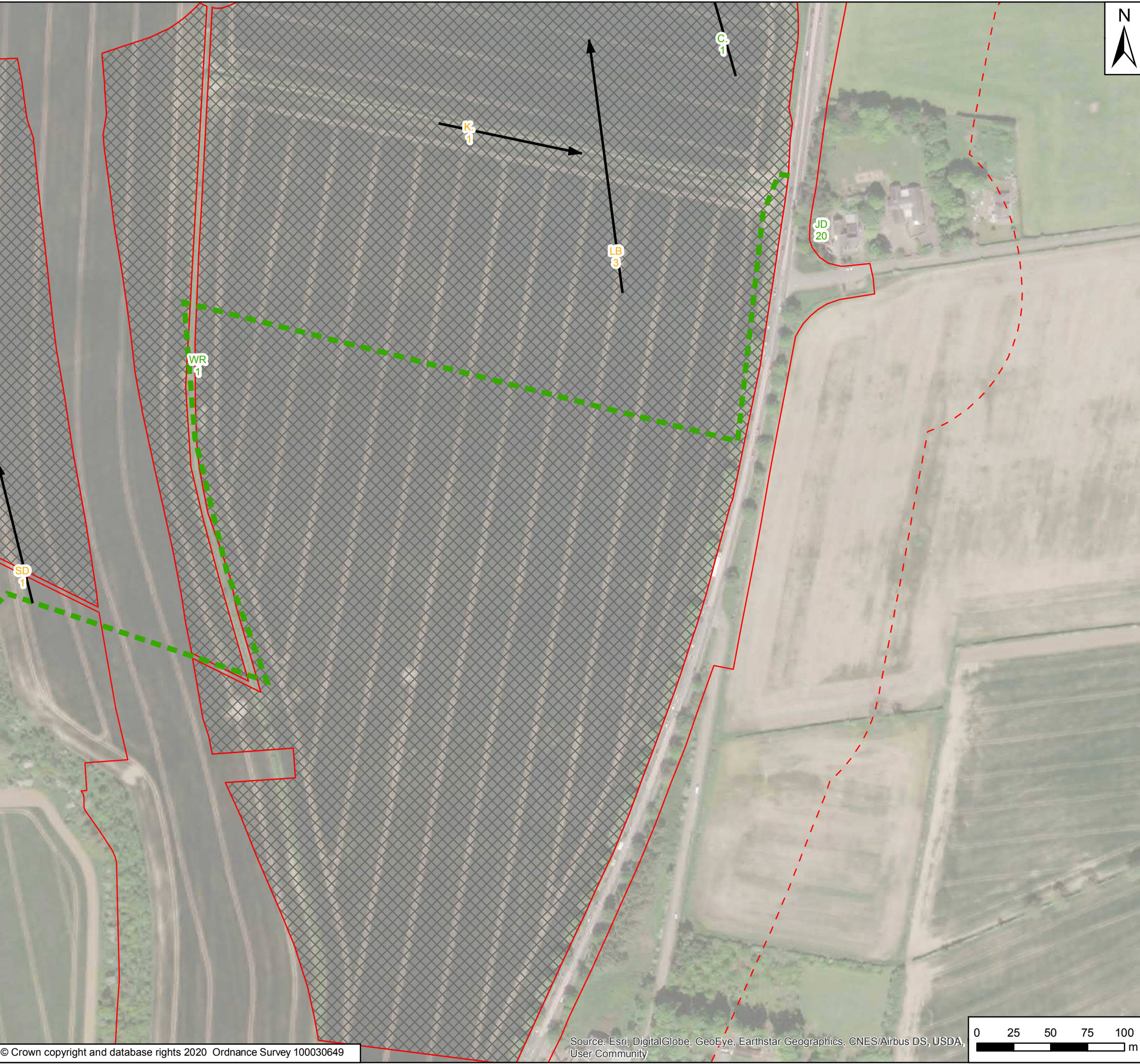
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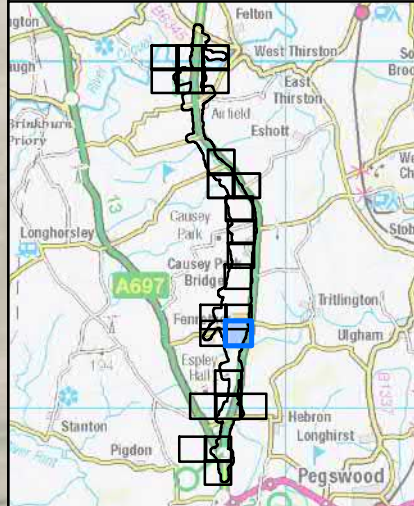
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M2F			Revision P01
Location	Type	Role	Number





Key		Species List	
	Order Limits	B	- Blackbird
	Areas Excluded from Order Limits	BF	- Bullfinch
	100m Study area	BH	- Black-headed gull
XX	BoCC Red List Species	BT	- Blue tit
XX	BoCC Amber List Species	BZ	- Buzzard
XX	BoCC Green List Species	C	- Carrion crow
XX	Introduced Species	CH	- Chaffinch
→	Bird in Flight	CM	- Common gull
	Transect 2	CT	- Coal tit
		D	- Dunnock
		FF	- Fieldfare
		GC	- Goldcrest
		GL	- Grey wagtail
		GO	- Goldfinch
		GP	- Golden plover
		GR	- Greenfinch
		GT	- Great tit
		H	- Grey heron
		HG	- Herring gull
		HS	- House sparrow
		J	- Jay
		JD	- Jackdaw
		K	- Kestrel
		L	- Lapwing
		LB	- Lesser black-backed gull
		LT	- Long-tailed tit
		M	- Mistle thrush
		MA	- Mallard
		MG	- Magpie
		MT	- Marsh tit
		NH	- Nuthatch
		P	- Grey partridge
		PE	- Peregrine falcon
		PH	- Pheasant
		R	- Robin
		RB	- Reed bunting
		RE	- Redwing
		RL	- Red-legged partridge
		RN	- Raven
		RO	- Rook
		S	- Skylark
		SD	- Stock dove
		SG	- Starling
		SH	- Sparrowhawk
		ST	- Song thrush
		TC	- Treecreeper
		TS	- Tree sparrow
		WP	- Woodpigeon
		WR	- Wren
		Y	- Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

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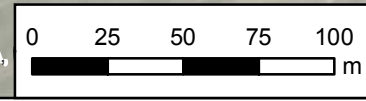
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Drawing Title: Figure 3B Winter Bird Survey Results - Transect 2
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Drawing Status: For Information
Suitability: S1

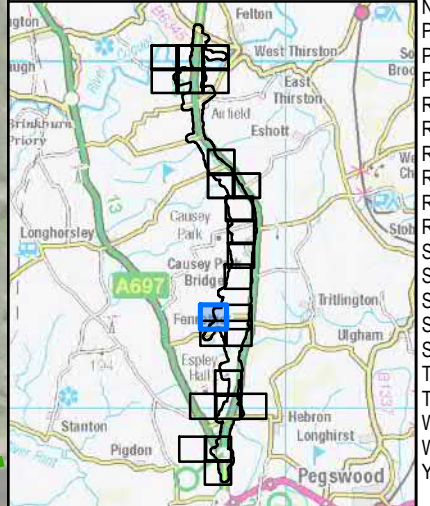
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HE551459		WSP	6.2	70044136
Revision				
M2F	P01			
Location	Type	Role	Number	





Key	
	Order Limits
	Areas Excluded from Order Limits
	100m Study area
XX	BoCC Red List Species
XX	BoCC Amber List Species
XX	BoCC Green List Species
XX	Introduced Species
➔	Bird in Flight
■	Transect 2

Species List	
B.	Blackbird
BF.	Bullfinch
BH.	Black-headed gull
BT.	Blue tit
BZ.	Buzzard
C.	Carrion crow
CH.	Chaffinch
CM.	Common gull
CT.	Coal tit
D.	Duncock
FF.	Fieldfare
GC.	Goldcrest
GL.	Grey wagtail
GO.	Goldfinch
GP.	Golden plover
GR.	Greenfinch
GT.	Great tit
H.	Grey heron
HG.	Herring gull
HS.	House sparrow
J.	Jay
JD.	Jackdaw
K.	Kestrel
L.	Lapwing
LB.	Lesser black-backed gull
LT.	Long-tailed tit
M.	Mistle thrush
MA.	Mallard
MG.	Magpie
MT.	Marsh tit
NH.	Nuthatch
P.	Grey partridge
PE.	Peregrine falcon
PH.	Pheasant
R.	Robin
RB.	Reed bunting
RE.	Redwing
RL.	Red-legged partridge
RN.	Raven
RO.	Rook
S.	Skylark
SD.	Stock dove
SG.	Starling
SH.	Sparrowhawk
ST.	Song thrush
TC.	Treecreeper
TS.	Tree sparrow
WP.	Woodpigeon
WR.	Wren
Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS



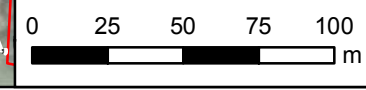
Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 3C Winter Bird Survey Results - Transect 2
Page 3 of 4

Scale	Drawn	Checked	Approved	Authorised
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Original Size	Date	Date	Date	Date
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Drawing Status: For Information
Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551459		WSP	6.2	70044136
Revision				
P01				



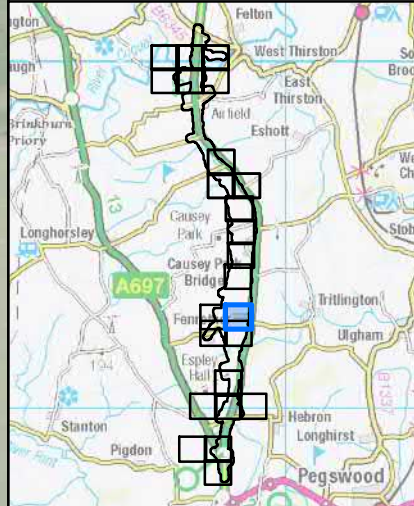


Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 2

Species List

- B - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H - Grey heron
- HG - Herring gull
- HS - House sparrow
- J - Jay
- JD - Jackdaw
- K - Kestrel
- L - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS
Rev	Date	Description	By	Chk'd	App'd

Client

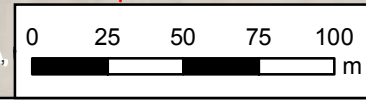
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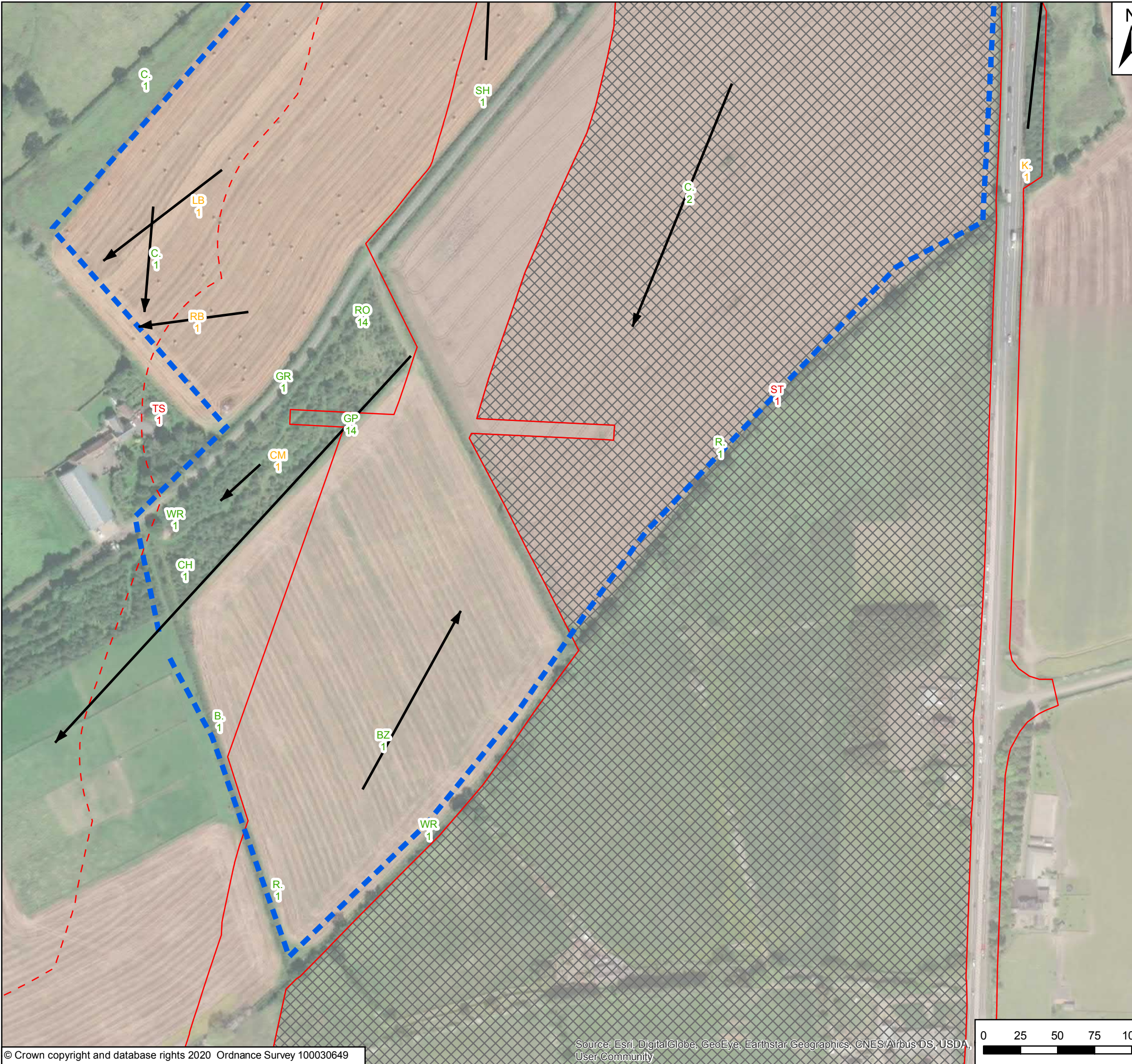
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Page 4 of 4

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Drawing Status: For Information
Suitability: S1

Drawing Number HE551459	Project M2F	Originator WSP	Volume 6.2	Project Ref. No. 70044136
Revision P01				



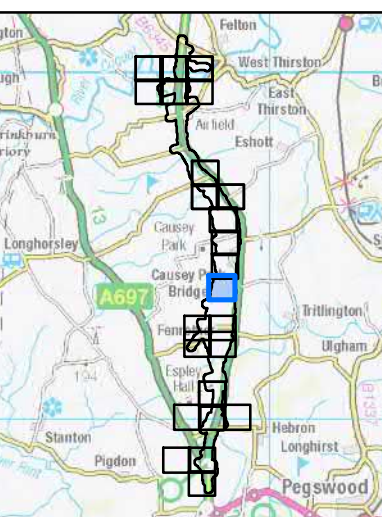


Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 3

Species List

- B - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H - Grey heron
- HG - Herring gull
- HS - House sparrow
- J - Jay
- JD - Jackdaw
- K - Kestrel
- L - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y - Yellowhammer



P01	26/02/20	First Issue		GH	RP	KS			
Rev	Date	Description		By	Chk'd	App'd			



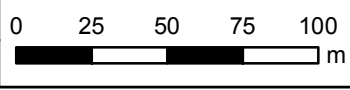
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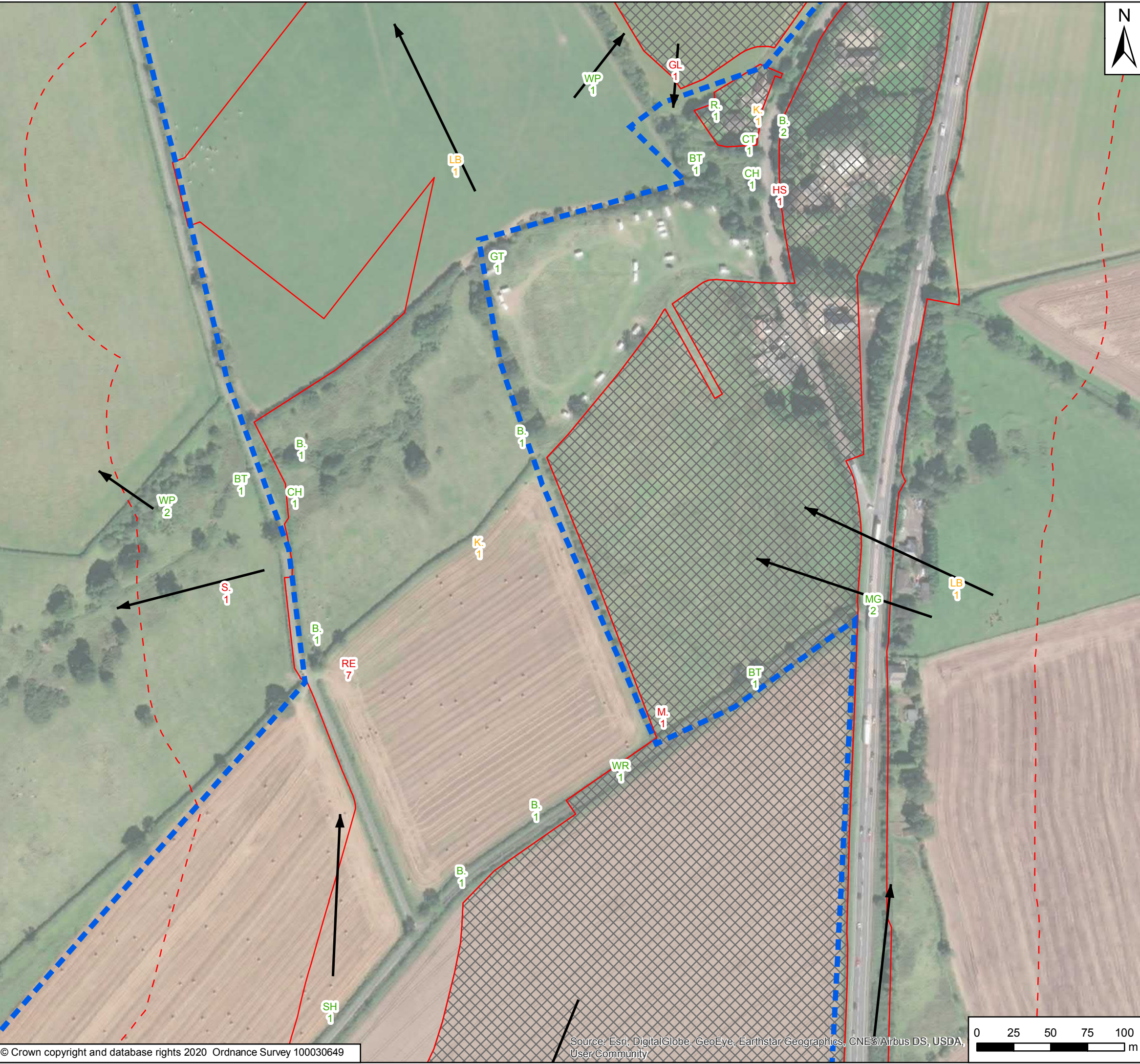
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Page 1 of 4

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Drawing Status: For Information
Suitability: S1

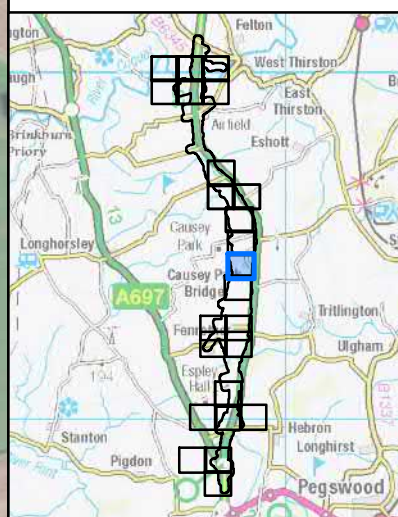
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M2F	Location:	Type:	Role:
		Number:	P01





Key	
	Order Limits
	Areas Excluded from Order Limits
	100m Study area
XX	BoCC Red List Species
XX	BoCC Amber List Species
XX	BoCC Green List Species
XX	Introduced Species
➔	Bird in Flight
	Transect 3

Species List	
B.	Blackbird
BF.	Bullfinch
BH.	Black-headed gull
BT.	Blue tit
BZ.	Buzzard
C.	Carrion crow
CH.	Chaffinch
CM.	Common gull
CT.	Coal tit
D.	Dunnock
FF.	Fieldfare
GC.	Goldcrest
GL.	Grey wagtail
GO.	Goldfinch
GP.	Golden plover
GR.	Greenfinch
GT.	Great tit
H.	Grey heron
HG.	Herring gull
HS.	House sparrow
J.	Jay
JD.	Jackdaw
K.	Kestrel
L.	Lapwing
LB.	Lesser black-backed gull
LT.	Long-tailed tit
M.	Mistle thrush
MA.	Mallard
MG.	Magpie
MT.	Marsh tit
NH.	Nuthatch
P.	Grey partridge
PE.	Peregrine falcon
PH.	Pheasant
R.	Robin
RB.	Reed bunting
RE.	Redwing
RL.	Red-legged partridge
RN.	Raven
RO.	Rook
S.	Skylark
SD.	Stock dove
SG.	Starling
SH.	Sparrowhawk
ST.	Song thrush
TC.	Treecreeper
TS.	Tree sparrow
WP.	Woodpigeon
WR.	Wren
Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

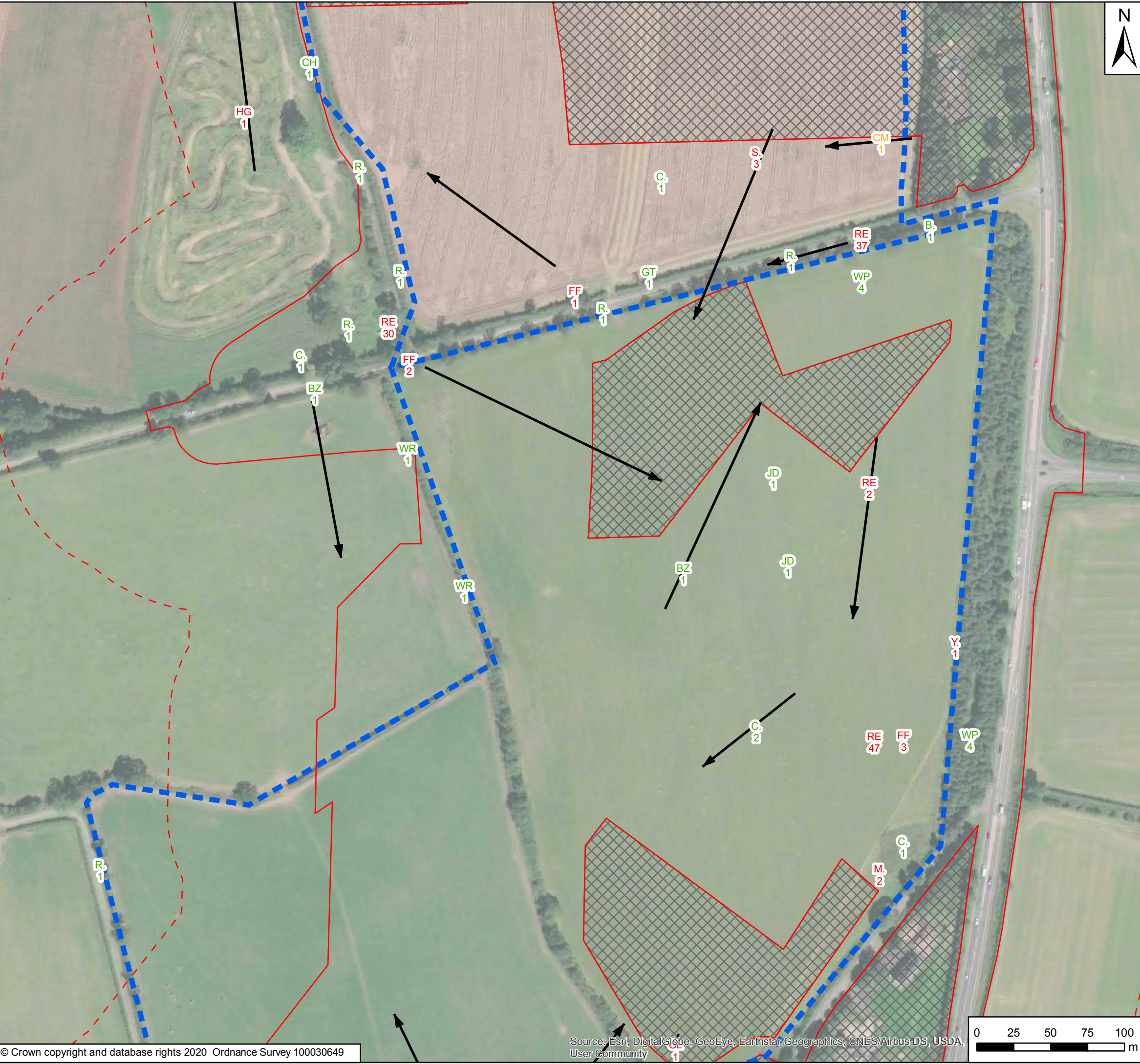
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Drawing Title: Figure 4B Winter Bird Survey Results - Transect 3
Page 2 of 4

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Original Size	Date	Date	Date	Date
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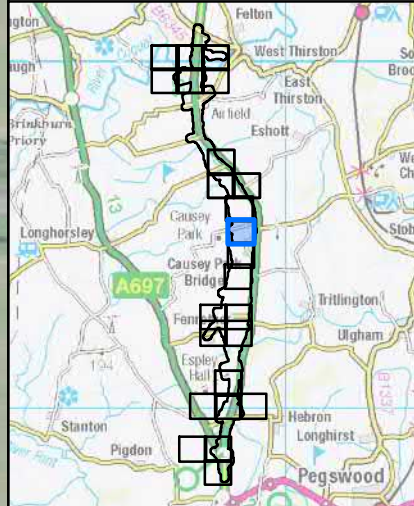
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Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551459		WSP	6.2	70044136
Revision				
P01				
Location	Type	Role	Number	
M2F				



Key	
	Order Limits
	Areas Excluded from Order Limits
	100m Study area
XX	BoCC Red List Species
XX	BoCC Amber List Species
XX	BoCC Green List Species
XX	Introduced Species
→	Bird in Flight
	Transect 3

Species List	
B.	Blackbird
BF.	Bullfinch
BH.	Black-headed gull
BT.	Blue tit
BZ.	Buzzard
C.	Carrion crow
CH.	Chaffinch
CM.	Common gull
CT.	Coal tit
D.	Dunnock
FF.	Fieldfare
GC.	Goldcrest
GL.	Grey wagtail
GO.	Goldfinch
GP.	Golden plover
GR.	Greenfinch
GT.	Great tit
H.	Grey heron
HG.	Herring gull
HS.	House sparrow
J.	Jay
JD.	Jackdaw
K.	Kestrel
L.	Lapwing
LB.	Lesser black-backed gull
LT.	Long-tailed tit
M.	Mistle thrush
MA.	Mallard
MG.	Magpie
MT.	Marsh tit
NH.	Nuthatch
P.	Grey partridge
PE.	Peregrine falcon
PH.	Pheasant
R.	Robin
RB.	Reed bunting
RE.	Redwing
RL.	Red-legged partridge
RN.	Raven
RO.	Rook
S.	Skylark
SD.	Stock dove
SG.	Starling
SH.	Sparrowhawk
ST.	Song thrush
TC.	Treecreeper
TS.	Tree sparrow
WP.	Woodpigeon
WR.	Wren
Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

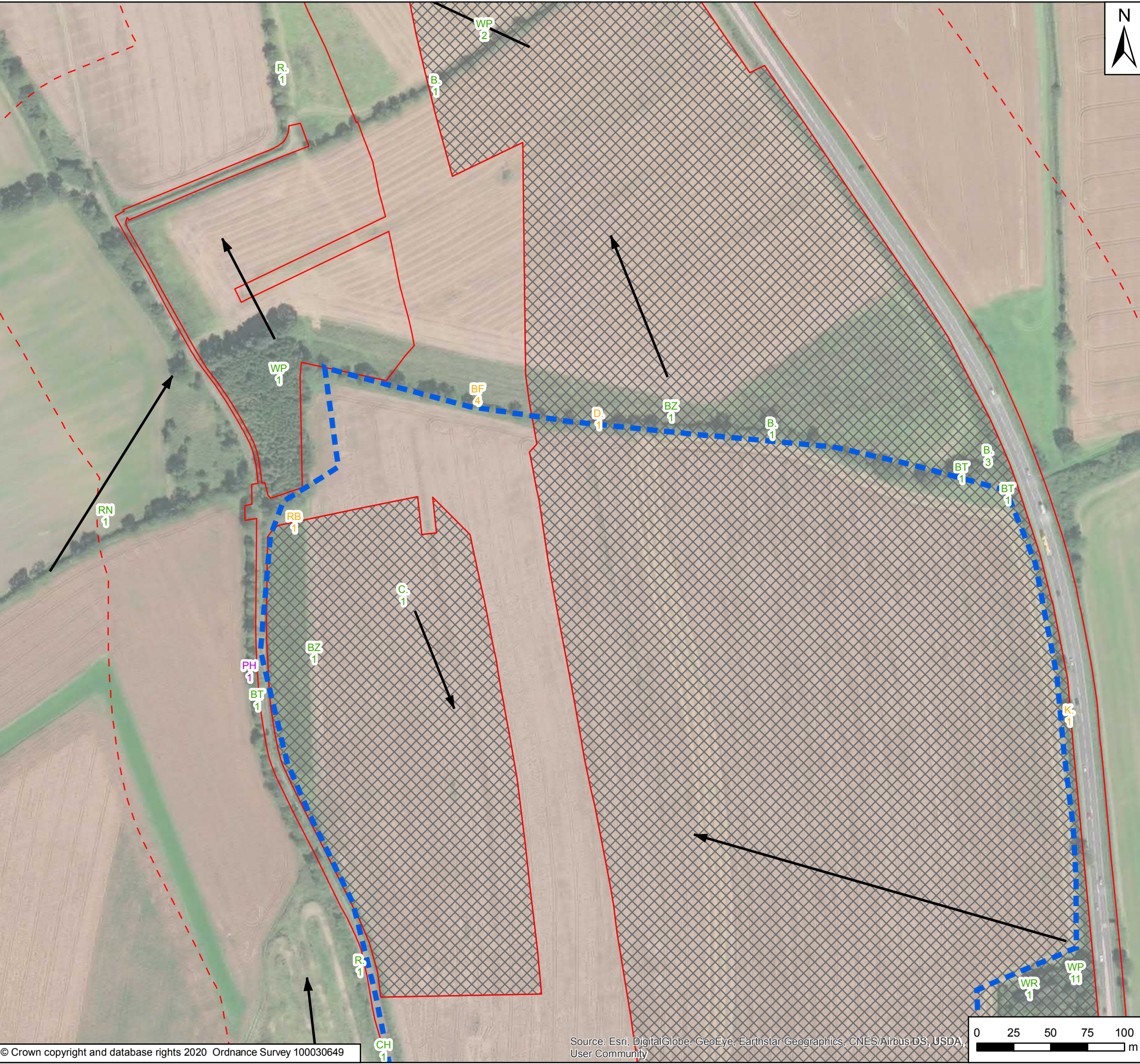
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Drawing Title: Figure 4C Winter Bird Survey Results - Transect 3
Page 3 of 4

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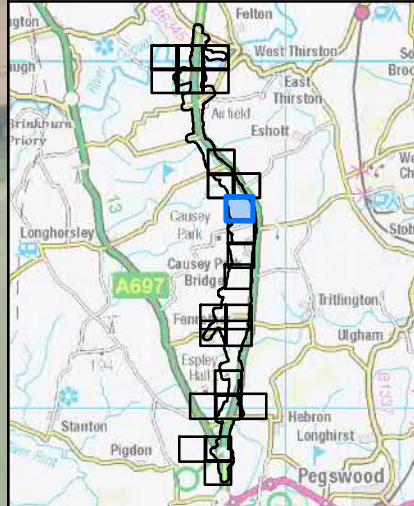
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Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
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Revision				
M2F	P01			
Location	Type	Role	Number	



Key	
	Order Limits
	Areas Excluded from Order Limits
	100m Study area
XX	BoCC Red List Species
XX	BoCC Amber List Species
XX	BoCC Green List Species
XX	Introduced Species
➔	Bird in Flight
	Transect 3

Species List	
B.	Blackbird
BF	Bullfinch
BH	Black-headed gull
BT	Blue tit
BZ	Buzzard
C.	Carrion crow
CH	Chaffinch
CM	Common gull
CT	Coal tit
D.	Duncock
FF	Fieldfare
GC	Goldcrest
GL	Grey wagtail
GO	Goldfinch
GP	Golden plover
GR	Greenfinch
GT	Great tit
H.	Grey heron
HG	Herring gull
HS	House sparrow
J.	Jay
JD	Jackdaw
K.	Kestrel
L.	Lapwing
LB	Lesser black-backed gull
LT	Long-tailed tit
M.	Mistle thrush
MA	Mallard
MG	Magpie
MT	Marsh tit
NH	Nuthatch
P.	Grey partridge
PE	Peregrine falcon
PH	Pheasant
R.	Robin
RB	Reed bunting
RE	Redwing
RL	Red-legged partridge
RN	Raven
RO	Rook
S.	Skylark
SD	Stock dove
SG	Starling
SH	Sparrowhawk
ST	Song thrush
TC	Treecreeper
TS	Tree sparrow
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS



Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 4D Winter Bird Survey Results - Transect 3
Page 4 of 4

Scale	Drawn	Checked	Approved	Authorised
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Drawing Status: For Information
Suitability: S1

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HE551459		WSP	6.2	70044136
M2F	Location	Type	Role	Number
				P01

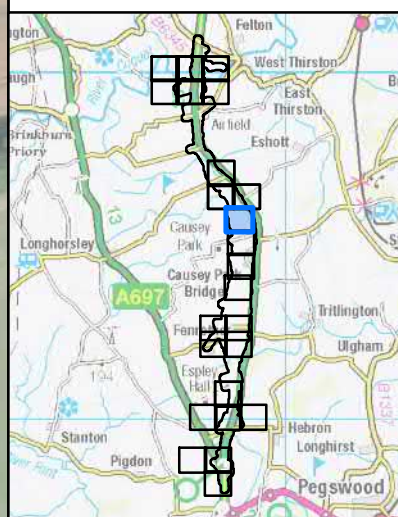


Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 4

Species List

- B - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H - Grey heron
- HG - Herring gull
- HS - House sparrow
- J - Jay
- JD - Jackdaw
- K - Kestrel
- L - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS				
Rev	Date	Description	By	Chk'd	App'd				



Project Title: A1 in Northumberland: Morpeth to Felton

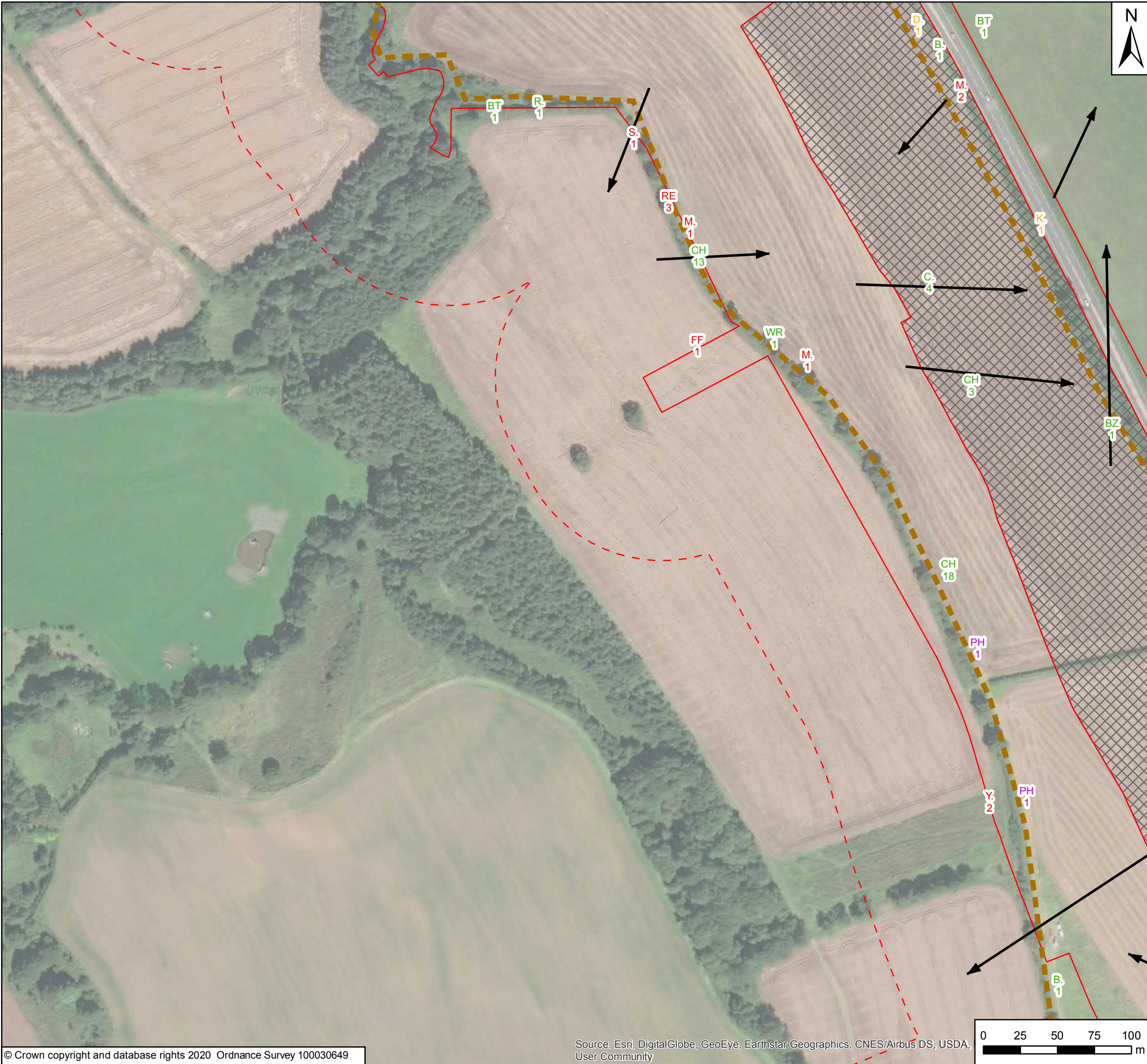
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Page 1 of 4

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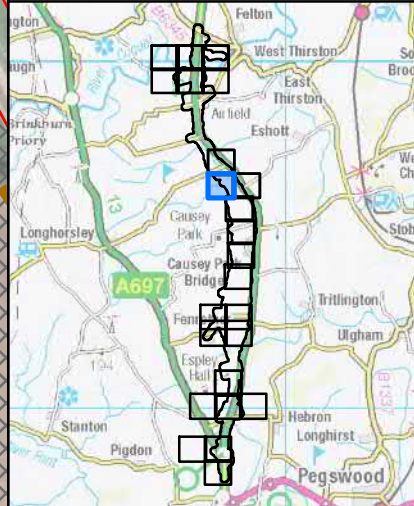
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Drawing Number: HE551459	Project: M2F	Originator: WSP	Volume: 6.2	Project Ref. No: 70044136
Location:	Type:	Role:	Number:	Revision: P01





Key		Species List	
	Order Limits	B.	Blackbird
	Areas Excluded from Order Limits	BF	Bullfinch
	100m Study area	BH	Black-headed gull
XX	BoCC Red List Species	BT	Blue tit
XX	BoCC Amber List Species	BZ	Buzzard
XX	BoCC Green List Species	C.	Carrion crow
XX	Introduced Species	CH	Chaffinch
	Bird in Flight	CM	Common gull
	Transect 4	CT	Coal tit
		D.	Dunnock
		FF	Fieldfare
		GC	Goldcrest
		GL	Grey wagtail
		GO	Goldfinch
		GP	Golden plover
		GR	Greenfinch
		GT	Great tit
		H.	Grey heron
		HG	Herring gull
		HS	House sparrow
		J.	Jay
		JD	Jackdaw
		K.	Kestrel
		L.	Lapwing
		LB	Lesser black-backed gull
		LT	Long-tailed tit
		M.	Mistle thrush
		MA	Mallard
		MG	Magpie
		MT	Marsh tit
		NH	Nuthatch
		P.	Grey partridge
		PE	Peregrine falcon
		PH	Pheasant
		R.	Robin
		RB	Reed bunting
		RE	Redwing
		RL	Red-legged partridge
		RN	Raven
		RO	Rook
		S.	Skylark
		SD	Stock dove
		SG	Starling
		SH	Sparrowhawk
		ST	Song thrush
		TC	Treecreeper
		TS	Tree sparrow
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS



Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 5B Winter Bird Survey Results - Transect 4
Page 2 of 4

Scale	Drawn	Checked	Approved	Authorised
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Drawing Status: For Information
Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551459	M2F	WSP	6.2	70044136
	Location	Type	Role	Number
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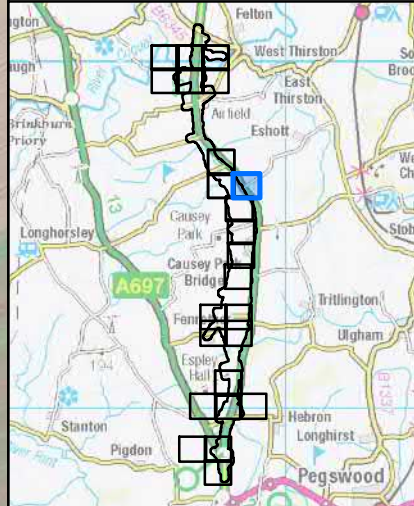


Key

- Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 4

Species List

- B. - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C. - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D. - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H. - Grey heron
- HG - Herring gull
- HS - House sparrow
- J. - Jay
- JD - Jackdaw
- K. - Kestrel
- L. - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M. - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P. - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R. - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S. - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y. - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS
Rev	Date	Description	By	Chk'd	App'd

Client

Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 5C Winter Bird Survey Results - Transect 4
Page 3 of 4

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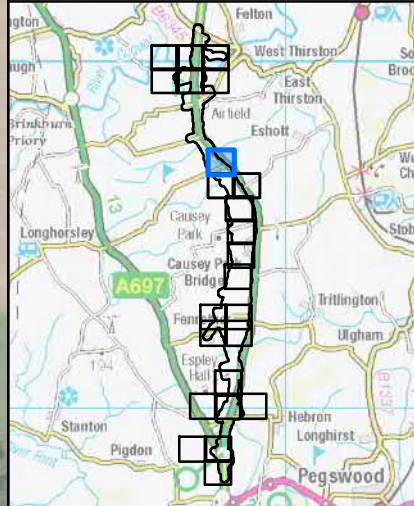
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Suitability: S1

Drawing Number HE551459	Originator WSP	Volume 6.2	Project Ref. No. 70044136
M2F Location			Revision P01

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, User Community



Key		Species List	
	Order Limits	B - Blackbird	
	100m Study area	BF - Bullfinch	
	Areas Excluded from Order Limits	BH - Black-headed gull	
XX	BoCC Red List Species	BT - Blue tit	
XX	BoCC Amber List Species	BZ - Buzzard	
XX	BoCC Green List Species	C - Carrion crow	
XX	Introduced Species	CH - Chaffinch	
	Bird in Flight	CM - Common gull	
	Transect 4	CT - Coal tit	
		D - Dunnock	
		FF - Fieldfare	
		GC - Goldcrest	
		GL - Grey wagtail	
		GO - Goldfinch	
		GP - Golden plover	
		GR - Greenfinch	
		GT - Great tit	
		H - Grey heron	
		HG - Herring gull	
		HS - House sparrow	
		J - Jay	
		JD - Jackdaw	
		K - Kestrel	
		L - Lapwing	
		LB - Lesser black-backed gull	
		LT - Long-tailed tit	
		M - Mistle thrush	
		MA - Mallard	
		MG - Magpie	
		MT - Marsh tit	
		NH - Nuthatch	
		P - Grey partridge	
		PE - Peregrine falcon	
		PH - Pheasant	
		R - Robin	
		RB - Reed bunting	
		RE - Redwing	
		RL - Red-legged partridge	
		RN - Raven	
		RO - Rook	
		S - Skylark	
		SD - Stock dove	
		SG - Starling	
		SH - Sparrowhawk	
		ST - Song thrush	
		TC - Treecreeper	
		TS - Tree sparrow	
		WP - Woodpigeon	
		WR - Wren	
		Y - Yellowhammer	



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS



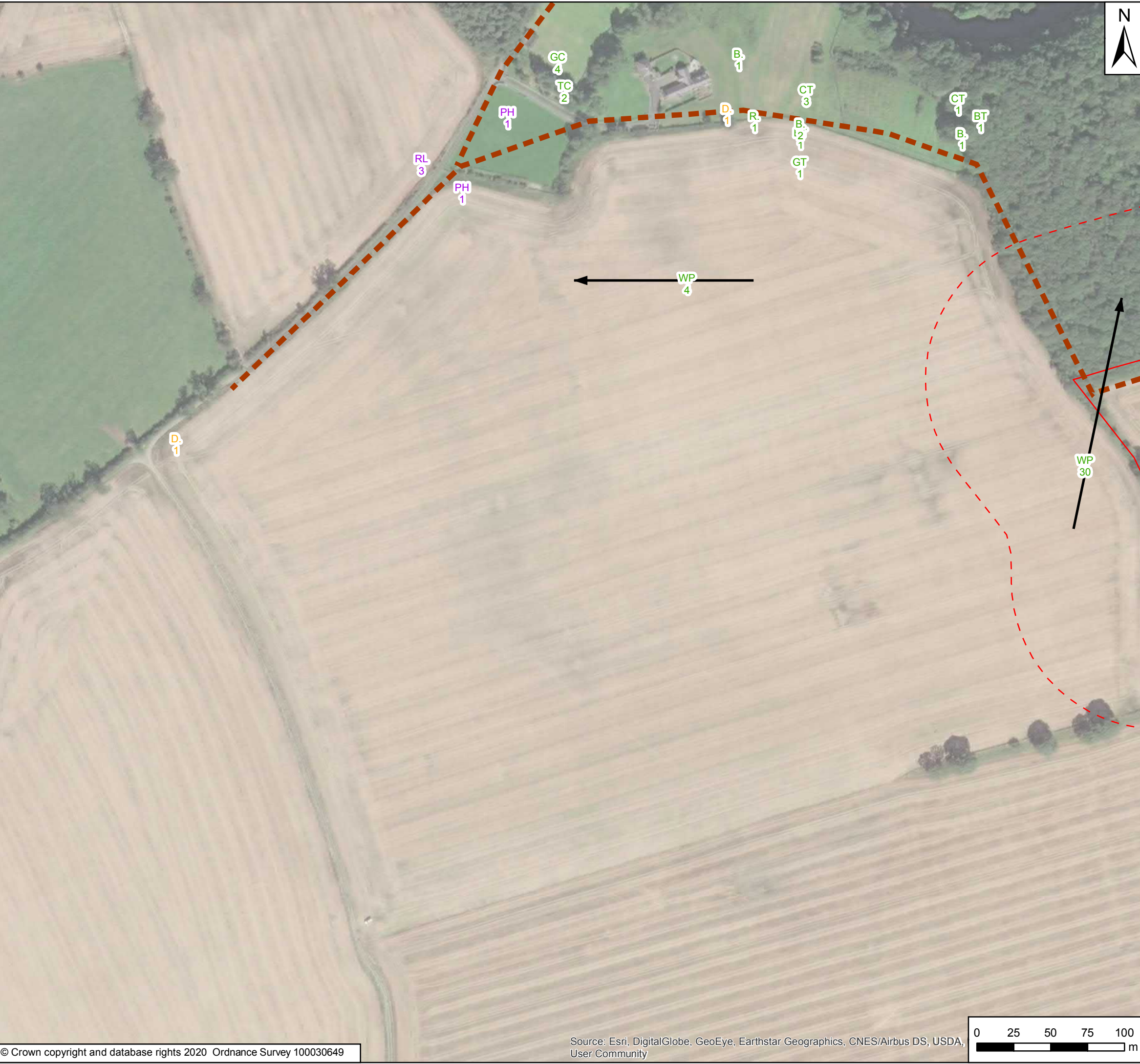
Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 5D Winter Bird Survey Results - Transect 4
Page 4 of 4

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Drawing Status: For Information
Suitability: S1

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HE551459	M2F	WSP	6.2	70044136
	Location	Type	Role	Number
				P01

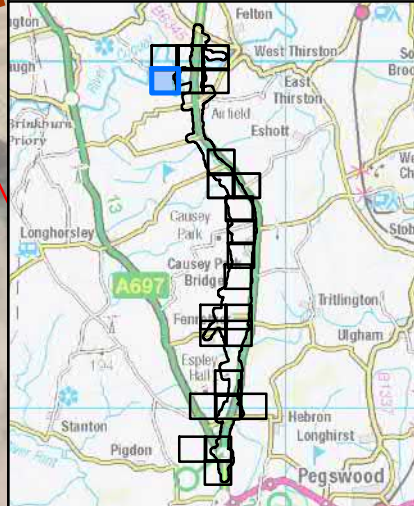


Key

- Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- Bird in Flight
- Transect 5

Species List

- B. - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C. - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D. - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H. - Grey heron
- HG - Herring gull
- HS - House sparrow
- J. - Jay
- JD - Jackdaw
- K. - Kestrel
- L. - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M. - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P. - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R. - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S. - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y. - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS				
Rev	Date	Description	By	Chk'd	App'd				



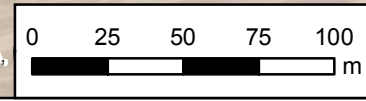
Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 6A Winter Bird Survey Results - Transect 5
Page 1 of 4

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Drawing Status: For Information
Suitability: S1

Drawing Number	HE551459	Project	M2F	Originator	WSP	Volume	6.2	Project Ref. No.	70044136
Location		Type		Role		Number		Revision	P01



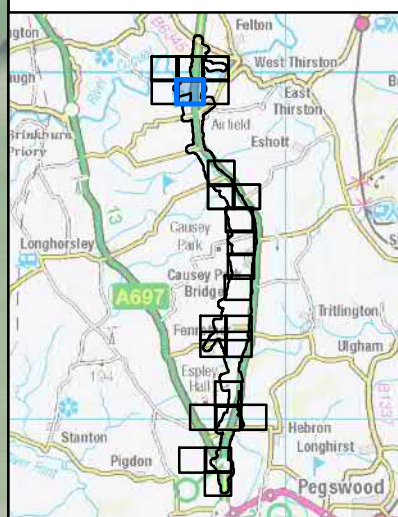


Key

- Order Limits
- 100m Study area
- BoCC Red List Species
- BoCC Amber List Species
- BoCC Green List Species
- Introduced Species
- Bird in Flight
- Transect 5

Species List

- B. - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C. - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D. - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H. - Grey heron
- HG - Herring gull
- HS - House sparrow
- J. - Jay
- JD - Jackdaw
- K. - Kestrel
- L. - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M. - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P. - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R. - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S. - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y. - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS
Rev	Date	Description	By	Chk'd	App'd

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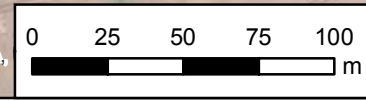
Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 6B Winter Bird Survey Results - Transect 5
Page 2 of 4

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Suitability: S1

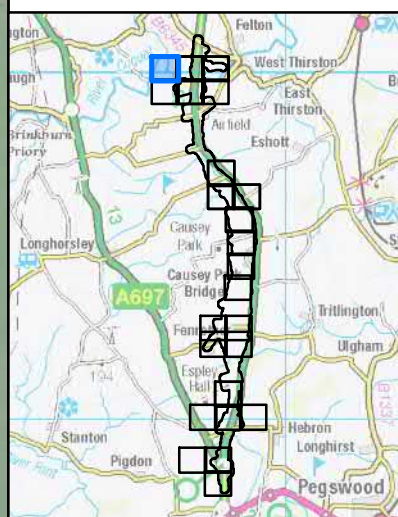
Drawing Number	HE551459	Originator	WSP	Volume	6.2	Project Ref. No.	70044136
Location	M2F	Type		Role		Revision	P01





Key	
	Order Limits
	Areas Excluded from Order Limits
	100m Study area
	BoCC Red List Species
	BoCC Amber List Species
	BoCC Green List Species
	Introduced Species
	Bird in Flight
	Transect 5

Species List	
B.	Blackbird
BF.	Bullfinch
BH.	Black-headed gull
BT.	Blue tit
BZ.	Buzzard
C.	Carrion crow
CH.	Chaffinch
CM.	Common gull
CT.	Coal tit
D.	Dunnock
FF.	Fieldfare
GC.	Goldcrest
GL.	Grey wagtail
GO.	Goldfinch
GP.	Golden plover
GR.	Greenfinch
GT.	Great tit
H.	Grey heron
HG.	Herring gull
HS.	House sparrow
J.	Jay
JD.	Jackdaw
K.	Kestrel
L.	Lapwing
LB.	Lesser black-backed gull
LT.	Long-tailed tit
M.	Mistle thrush
MA.	Mallard
MG.	Magpie
MT.	Marsh tit
NH.	Nuthatch
P.	Grey partridge
PE.	Peregrine falcon
PH.	Pheasant
R.	Robin
RB.	Reed bunting
RE.	Redwing
RL.	Red-legged partridge
RN.	Raven
RO.	Rook
S.	Skylark
SD.	Stock dove
SG.	Starling
SH.	Sparrowhawk
ST.	Song thrush
TC.	Treecreeper
TS.	Tree sparrow
WP.	Woodpigeon
WR.	Wren
Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

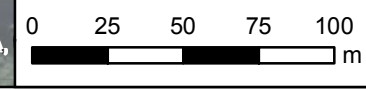
Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 6C Winter Bird Survey Results - Transect 5
Page 3 of 4

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Drawing Status: For Information
Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551459	M2F	WSP	6.2	70044136
Revision				P01



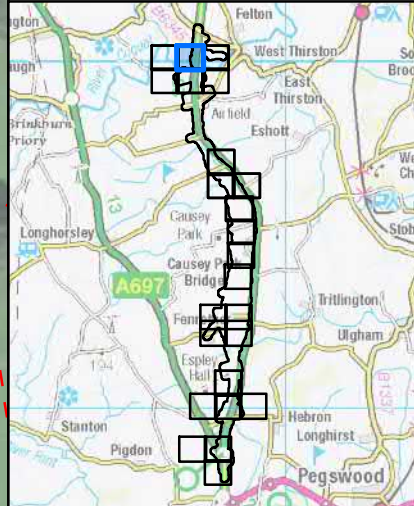


Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 5

Species List

- B. - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C. - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D. - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H. - Grey heron
- HG - Herring gull
- HS - House sparrow
- J. - Jay
- JD - Jackdaw
- K. - Kestrel
- L. - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M. - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P. - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R. - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S. - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y. - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS
Rev	Date	Description	By	Chk'd	App'd

Client

Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 6D Winter Bird Survey Results - Transect 5
Page 4 of 4

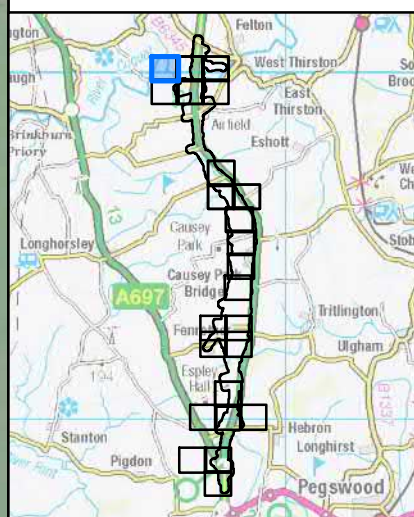
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Drawing Status: For Information
Suitability: S1

Drawing Number HE551459	Originator WSP	Volume 6.2	Project Ref. No. 70044136
M2F Location	Type	Role	Number P01



Key		Species List
	Order Limits	B. - Blackbird
	Areas Excluded from Order Limits	BF - Bullfinch
	100m Study area	BH - Black-headed gull
	BoCC Red List Species	BT - Blue tit
	BoCC Amber List Species	BZ - Buzzard
	BoCC Green List Species	C. - Carrion crow
	Introduced Species	CH - Chaffinch
	Bird in Flight	CM - Common gull
	Transect 6	CT - Coal tit
		D. - Dunnock
		FF - Fieldfare
		GC - Goldcrest
		GL - Grey wagtail
		GO - Goldfinch
		GP - Golden plover
		GR - Greenfinch
		GT - Great tit
		H. - Grey heron
		HG - Herring gull
		HS - House sparrow
		J. - Jay
		JD - Jackdaw
		K. - Kestrel
		L. - Lapwing
		LB - Lesser black-backed gull
		LT - Long-tailed tit
		M. - Mistle thrush
		MA - Mallard
		MG - Magpie
		MT - Marsh tit
		NH - Nuthatch
		P. - Grey partridge
		PE - Peregrine falcon
		PH - Pheasant
		R. - Robin
		RB - Reed bunting
		RE - Redwing
		RL - Red-legged partridge
		RN - Raven
		RO - Rook
		S. - Skylark
		SD - Stock dove
		SG - Starling
		SH - Sparrowhawk
		ST - Song thrush
		TC - Treecreeper
		TS - Tree sparrow
		WP - Woodpigeon
		WR - Wren
		Y. - Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

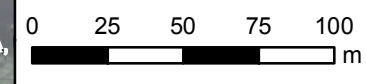
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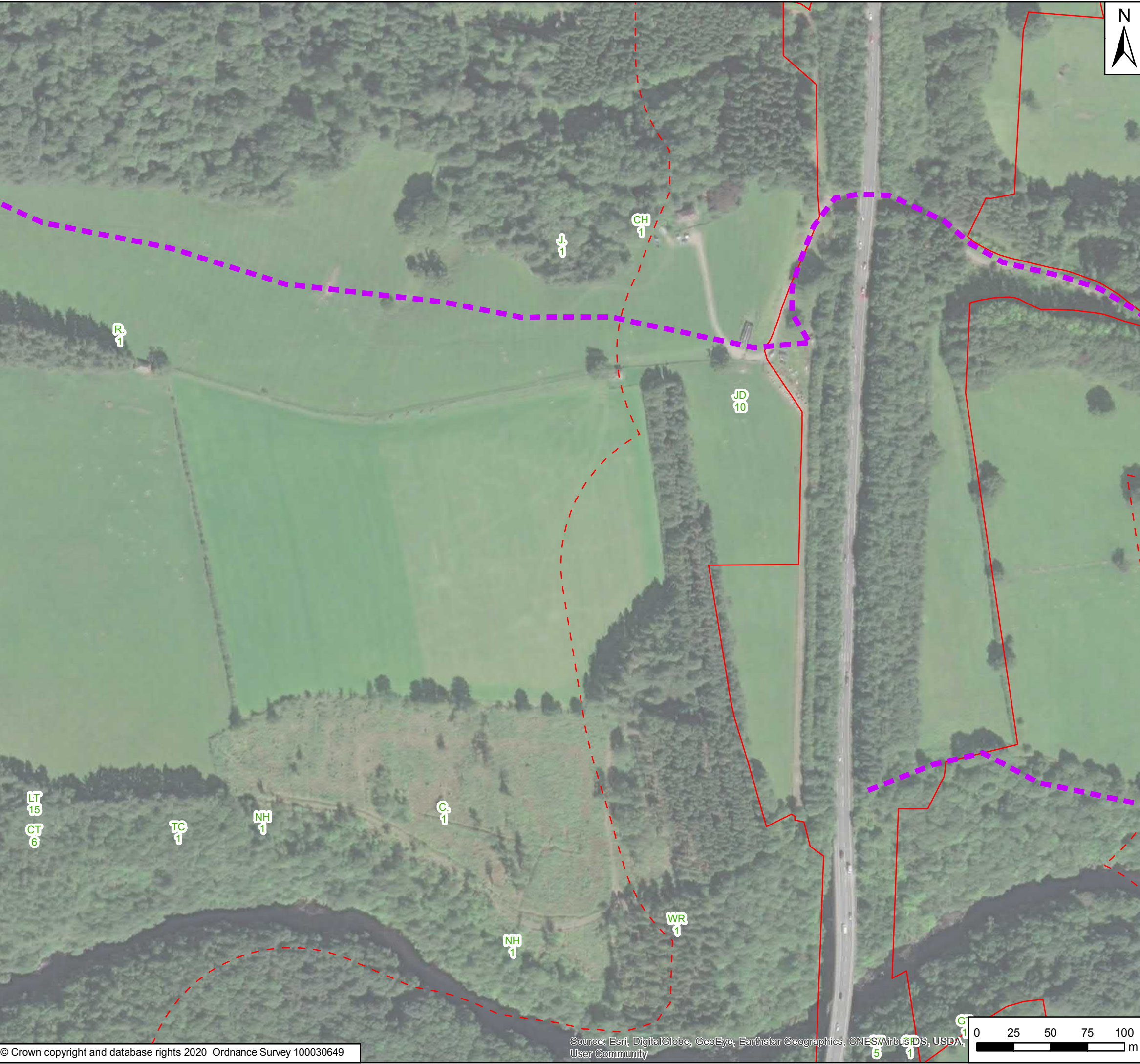
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Page 1 of 3

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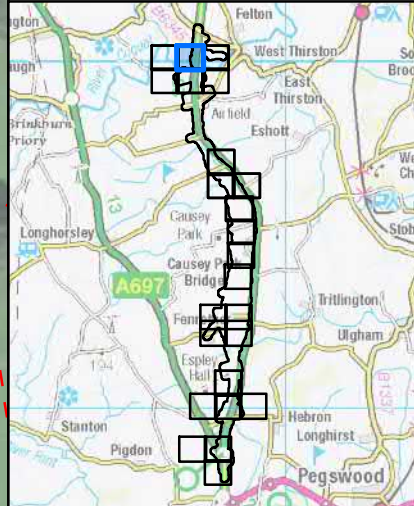
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Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551459	M2F	WSP	6.2	70044136
Revision				P01





Key		Species List	
	Order Limits	B. - Blackbird	
	100m Study area	BF - Bullfinch	
	Areas Excluded from Order Limits	BH - Black-headed gull	
XX	BoCC Red List Species	BT - Blue tit	
XX	BoCC Amber List Species	BZ - Buzzard	
XX	BoCC Green List Species	C. - Carrion crow	
XX	Introduced Species	CH - Chaffinch	
	Bird in Flight	CM - Common gull	
	Transect 6	CT - Coal tit	
		D. - Dunnock	
		FF - Fieldfare	
		GC - Goldcrest	
		GL - Grey wagtail	
		GO - Goldfinch	
		GP - Golden plover	
		GR - Greenfinch	
		GT - Great tit	
		H. - Grey heron	
		HG - Herring gull	
		HS - House sparrow	
		J. - Jay	
		JD - Jackdaw	
		K. - Kestrel	
		L. - Lapwing	
		LB - Lesser black-backed gull	
		LT - Long-tailed tit	
		M. - Mistle thrush	
		MA - Mallard	
		MG - Magpie	
		MT - Marsh tit	
		NH - Nuthatch	
		P. - Grey partridge	
		PE - Peregrine falcon	
		PH - Pheasant	
		R. - Robin	
		RB - Reed bunting	
		RE - Redwing	
		RL - Red-legged partridge	
		RN - Raven	
		RO - Rook	
		S. - Skylark	
		SD - Stock dove	
		SG - Starling	
		SH - Sparrowhawk	
		ST - Song thrush	
		TC - Treecreeper	
		TS - Tree sparrow	
		WP - Woodpigeon	
		WR - Wren	
		Y. - Yellowhammer	



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 7B Winter Bird Survey Results - Transect 6
Page 2 of 3

Scale	Drawn	Checked	Approved	Authorised
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Drawing Status: For Information
Suitability: S1

Drawing Number	Project	Originator	Volume	Project Ref. No.
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M2F	Location	Type	Role	Number
				P01

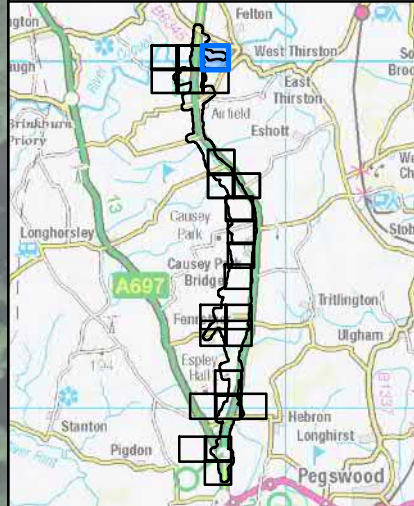


Key

- Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 6

Species List

- B - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H - Grey heron
- HG - Herring gull
- HS - House sparrow
- J - Jay
- JD - Jackdaw
- K - Kestrel
- L - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS
Rev	Date	Description	By	Chk'd	App'd

Client

Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 7C Winter Bird Survey Results - Transect 6
Page 3 of 3

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Drawing Status: For Information
Suitability: S1

Drawing Number	HE551459	Project	WSP	Originator	WSP	Volume	6.2	Project Ref. No.	70044136
Location	M2F	Type		Role		Number		Revision	P01

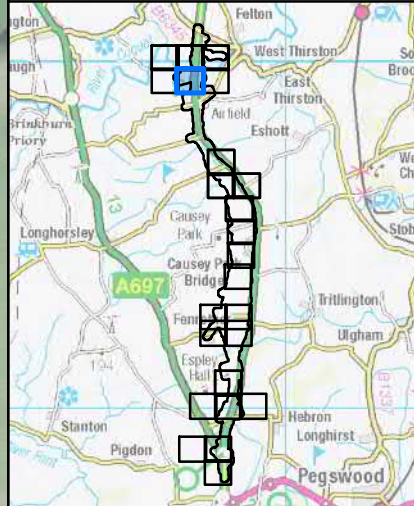


Key

- Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 7

Species List

- B. - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C. - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D. - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H. - Grey heron
- HG - Herring gull
- HS - House sparrow
- J. - Jay
- JD - Jackdaw
- K. - Kestrel
- L. - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M. - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P. - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R. - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S. - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y. - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS
Rev	Date	Description	By	Chk'd	App'd

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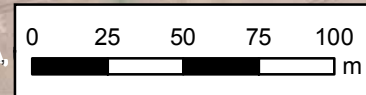
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Drawing Title: Figure 8A Winter Bird Survey Results - Transect 7
Page 1 of 4

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Drawing Status: For Information
Suitability: S1

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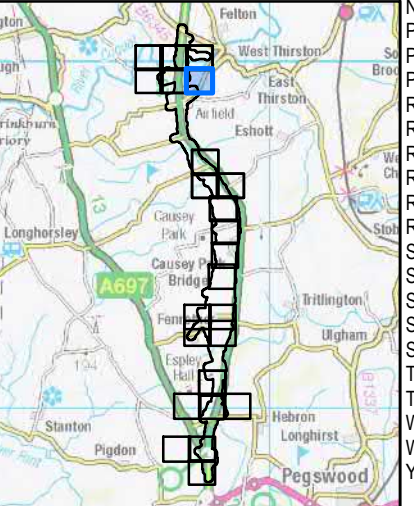


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- Key**
- Order Limits
 - 100m Study area
 - XX BoCC Red List Species
 - XX BoCC Amber List Species
 - XX BoCC Green List Species
 - XX Introduced Species
 - ➔ Bird in Flight
 - - - Transect 7

- Species List**
- B. - Blackbird
 - BF - Bullfinch
 - BH - Black-headed gull
 - BT - Blue tit
 - BZ - Buzzard
 - C. - Carrion crow
 - CH - Chaffinch
 - CM - Common gull
 - CT - Coal tit
 - D. - Dunnock
 - FF - Fieldfare
 - GC - Goldcrest
 - GL - Grey wagtail
 - GO - Goldfinch
 - GP - Golden plover
 - GR - Greenfinch
 - GT - Great tit
 - H. - Grey heron
 - HG - Herring gull
 - HS - House sparrow
 - J. - Jay
 - JD - Jackdaw
 - K. - Kestrel
 - L. - Lapwing
 - LB - Lesser black-backed gull
 - LT - Long-tailed tit
 - M. - Mistle thrush
 - MA - Mallard
 - MG - Magpie
 - MT - Marsh tit
 - NH - Nuthatch
 - P. - Grey partridge
 - PE - Peregrine falcon
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 - RB - Reed bunting
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 - S. - Skylark
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 - SG - Starling
 - SH - Sparrowhawk
 - ST - Song thrush
 - TC - Treecreeper
 - TS - Tree sparrow
 - WP - Woodpigeon
 - WR - Wren
 - Y. - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS
Rev	Date	Description	By	Chk'd	App'd

Client

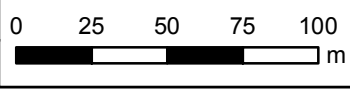
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Drawing Title: Figure 8B Winter Bird Survey Results - Transect 7
Page 2 of 4

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Drawing Status: For Information
Suitability: S1

Drawing Number: HE551459	Project: M2F	Originator: WSP	Volume: 6.2	Project Ref. No: 70044136
Revision: P01				



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, User Community

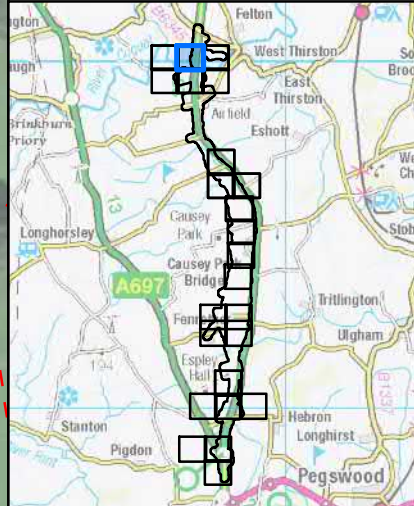


Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 7

Species List

- B. - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C. - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D. - Dunnock
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- GR - Greenfinch
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- HG - Herring gull
- HS - House sparrow
- J. - Jay
- JD - Jackdaw
- K. - Kestrel
- L. - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M. - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P. - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R. - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S. - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y. - Yellowhammer



P01	26/02/20	First Issue	GH	RP	KS		
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Client

Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 8C Winter Bird Survey Results - Transect 7
Page 3 of 4

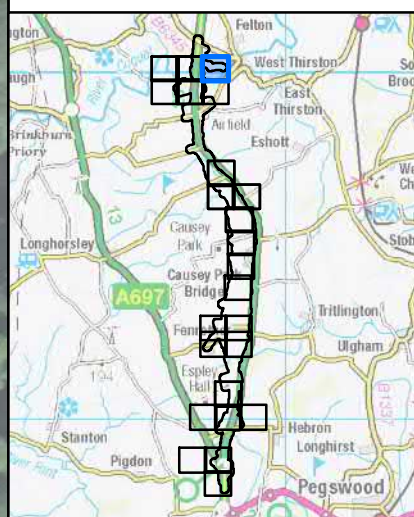
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Suitability: S1

Drawing Number: HE551459	Project: M2F	Originator: WSP	Volume: 6.2	Project Ref. No.: 70044136
Location:	Type:	Role:	Number:	Revision: P01



Key		Species List
	Order Limits	
	100m Study area	BF - Bullfinch
	Areas Excluded from Order Limits	BH - Black-headed gull
XX	BoCC Red List Species	BT - Blue tit
XX	BoCC Amber List Species	BZ - Buzzard
XX	BoCC Green List Species	C. - Carrion crow
XX	Introduced Species	CH - Chaffinch
➔	Bird in Flight	CM - Common gull
---	Transect 7	CT - Coal tit
		D. - Dunnock
		FF - Fieldfare
		GC - Goldcrest
		GL - Grey wagtail
		GO - Goldfinch
		GP - Golden plover
		GR - Greenfinch
		GT - Great tit
		H. - Grey heron
		HG - Herring gull
		HS - House sparrow
		J. - Jay
		JD - Jackdaw
		K. - Kestrel
		L. - Lapwing
		LB - Lesser black-backed gull
		LT - Long-tailed tit
		M. - Mistle thrush
		MA - Mallard
		MG - Magpie
		MT - Marsh tit
		NH - Nuthatch
		P. - Grey partridge
		PE - Peregrine falcon
		PH - Pheasant
		R. - Robin
		RB - Reed bunting
		RE - Redwing
		RL - Red-legged partridge
		RN - Raven
		RO - Rook
		S. - Skylark
		SD - Stock dove
		SG - Starling
		SH - Sparrowhawk
		ST - Song thrush
		TC - Treecreeper
		TS - Tree sparrow
		WP - Woodpigeon
		WR - Wren
		Y. - Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

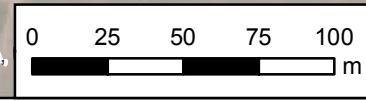
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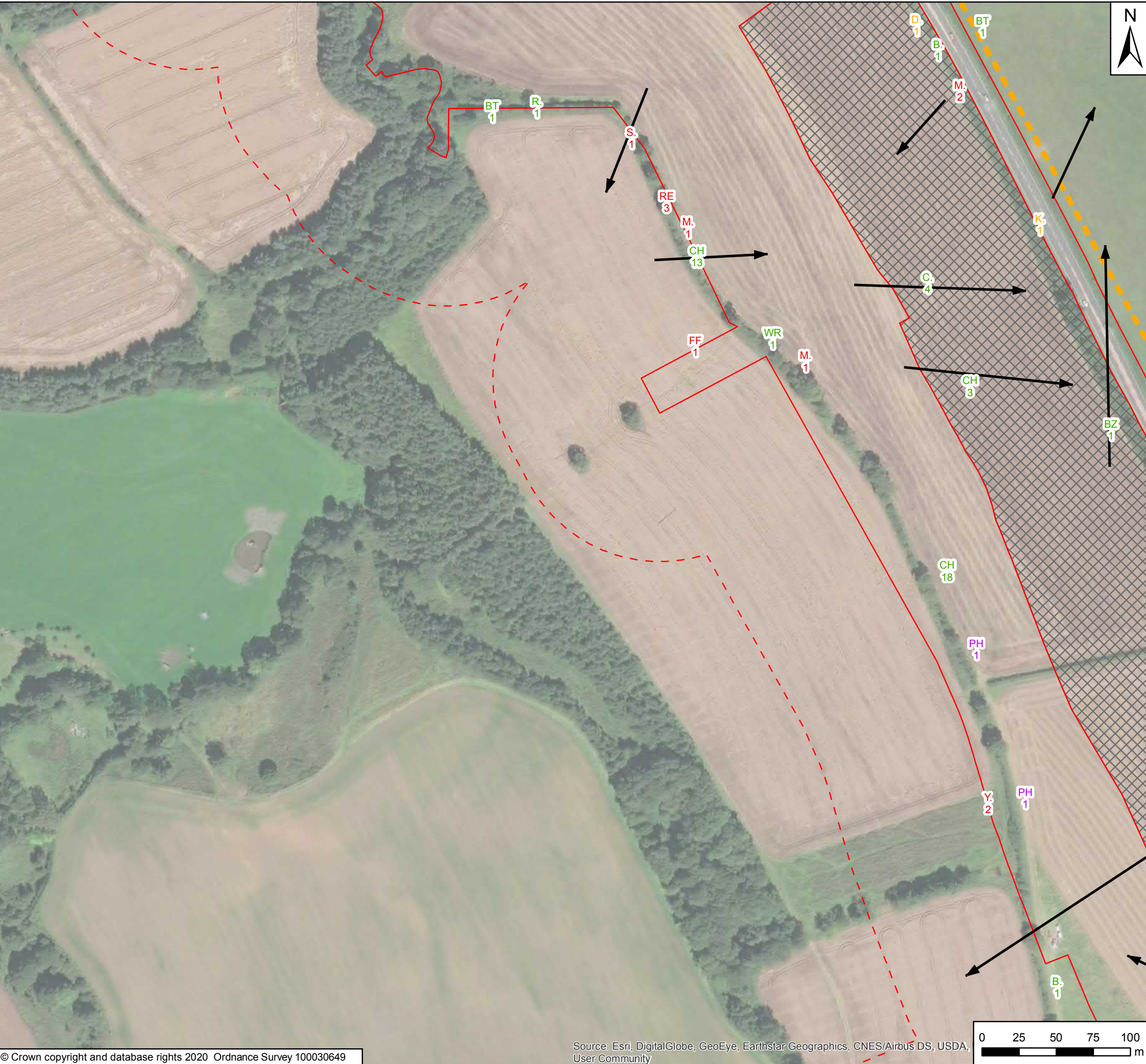
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Page 4 of 4

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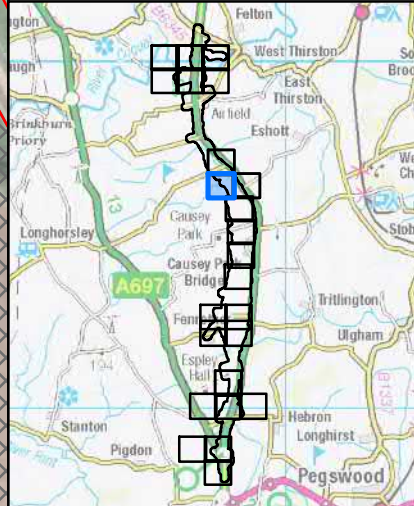
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HE551459		WSP	6.2	70044136
M2F	Location	Type	Role	Number
				P01





Key		Species List	
	Order Limits	B.	Blackbird
	Areas Excluded from Order Limits	BF	Bullfinch
	100m Study area	BH	Black-headed gull
XX	BoCC Red List Species	BT	Blue tit
XX	BoCC Amber List Species	BZ	Buzzard
XX	BoCC Green List Species	C.	Carrion crow
XX	Introduced Species	CH	Chaffinch
	Bird in Flight	CM	Common gull
	Transect 8	CT	Coal tit
		D.	Dunnock
		FF	Fieldfare
		GC	Goldcrest
		GL	Grey wagtail
		GO	Goldfinch
		GP	Golden plover
		GR	Greenfinch
		GT	Great tit
		H.	Grey heron
		HG	Herring gull
		HS	House sparrow
		J.	Jay
		JD	Jackdaw
		K.	Kestrel
		L.	Lapwing
		LB	Lesser black-backed gull
		LT	Long-tailed tit
		M.	Mistle thrush
		MA	Mallard
		MG	Magpie
		MT	Marsh tit
		NH	Nuthatch
		P.	Grey partridge
		PE	Peregrine falcon
		PH	Pheasant
		R.	Robin
		RB	Reed bunting
		RE	Redwing
		RL	Red-legged partridge
		RN	Raven
		RO	Rook
		S.	Skylark
		SD	Stock dove
		SG	Starling
		SH	Sparrowhawk
		ST	Song thrush
		TC	Treecreeper
		TS	Tree sparrow
		WP	Woodpigeon
		WR	Wren
		Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

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Project Title: A1 in Northumberland: Morpeth to Felton

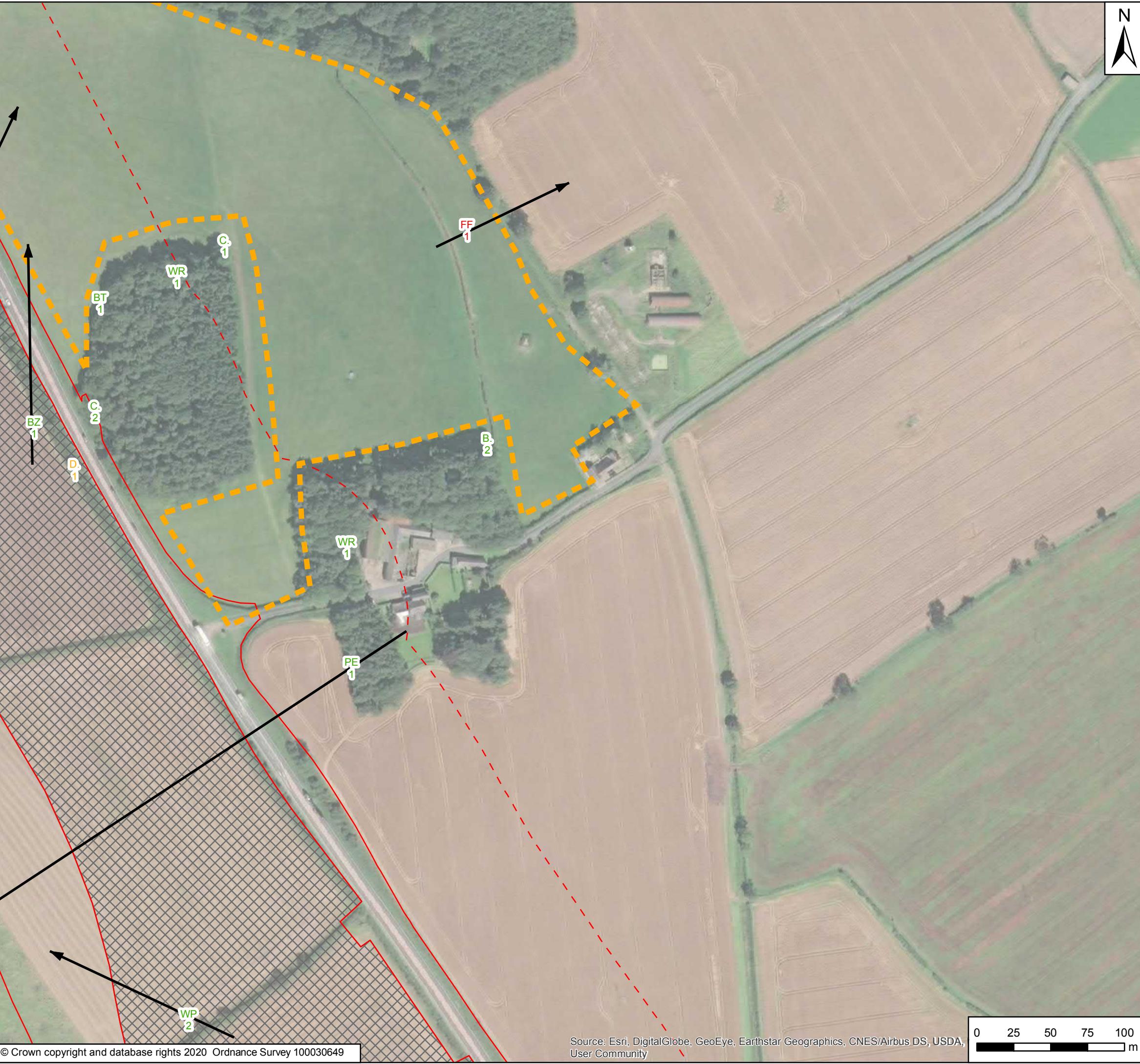
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Page 1 of 3

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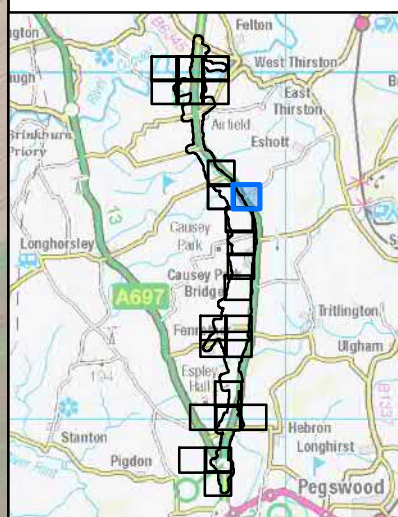
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Key	
	Order Limits
	Areas Excluded from Order Limits
	100m Study area
XX	BoCC Red List Species
XX	BoCC Amber List Species
XX	BoCC Green List Species
XX	Introduced Species
➔	Bird in Flight
	Transect 8

Species List	
B.	Blackbird
BF.	Bullfinch
BH.	Black-headed gull
BT.	Blue tit
BZ.	Buzzard
C.	Carrion crow
CH.	Chaffinch
CM.	Common gull
CT.	Coal tit
D.	Dunnock
FF.	Fieldfare
GC.	Goldcrest
GL.	Grey wagtail
GO.	Goldfinch
GP.	Golden plover
GR.	Greenfinch
GT.	Great tit
H.	Grey heron
HG.	Herring gull
HS.	House sparrow
J.	Jay
JD.	Jackdaw
K.	Kestrel
L.	Lapwing
LB.	Lesser black-backed gull
LT.	Long-tailed tit
M.	Mistle thrush
MA.	Mallard
MG.	Magpie
MT.	Marsh tit
NH.	Nuthatch
P.	Grey partridge
PE.	Peregrine falcon
PH.	Pheasant
R.	Robin
RB.	Reed bunting
RE.	Redwing
RL.	Red-legged partridge
RN.	Raven
RO.	Rook
S.	Skylark
SD.	Stock dove
SG.	Starling
SH.	Sparrowhawk
ST.	Song thrush
TC.	Treecreeper
TS.	Tree sparrow
WP.	Woodpigeon
WR.	Wren
Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS



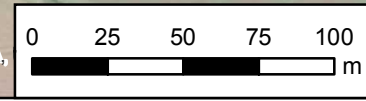
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Page 2 of 3

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Drawing Status: For Information
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				Revision
				P01

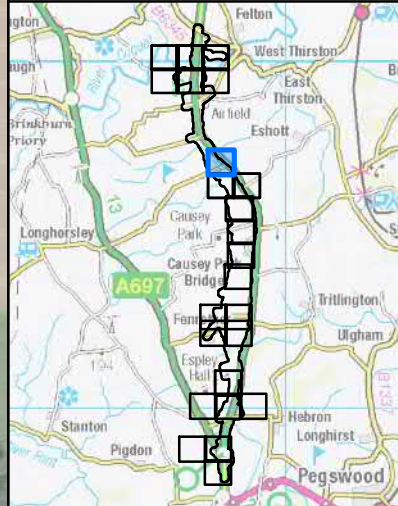


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, User Community



Key	
	Order Limits
	Areas Excluded from Order Limits
	100m Study area
XX	BoCC Red List Species
XX	BoCC Amber List Species
XX	BoCC Green List Species
XX	Introduced Species
➔	Bird in Flight
	Transect 8

Species List	
B.	Blackbird
BF	Bullfinch
BH	Black-headed gull
BT	Blue tit
BZ	Buzzard
C.	Carrion crow
CH	Chaffinch
CM	Common gull
CT	Coal tit
D.	Dunnock
FF	Fieldfare
GC	Goldcrest
GL	Grey wagtail
GO	Goldfinch
GP	Golden plover
GR	Greenfinch
GT	Great tit
H.	Grey heron
HG	Herring gull
HS	House sparrow
J.	Jay
JD	Jackdaw
K.	Kestrel
L.	Lapwing
LB	Lesser black-backed gull
LT	Long-tailed tit
M.	Mistle thrush
MA	Mallard
MG	Magpie
MT	Marsh tit
NH	Nuthatch
P.	Grey partridge
PE	Peregrine falcon
PH	Pheasant
R.	Robin
RB	Reed bunting
RE	Redwing
RL	Red-legged partridge
RN	Raven
RO	Rook
S.	Skylark
SD	Stock dove
SG	Starling
SH	Sparrowhawk
ST	Song thrush
TC	Treecreeper
TS	Tree sparrow
WP	Woodpigeon
WR	Wren
Y.	Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 9C Winter Bird Survey Results - Transect 8
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Location	Type	Role	Number	Revision
M2F				P01

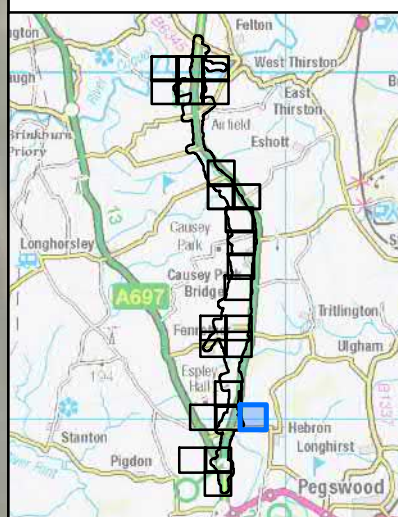


Key

- Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 9

Species List

- B. - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C. - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D. - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H. - Grey heron
- HG - Herring gull
- HS - House sparrow
- J. - Jay
- JD - Jackdaw
- K. - Kestrel
- L. - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M. - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P. - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R. - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S. - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y. - Yellowhammer



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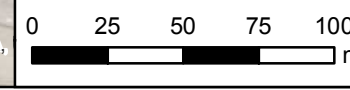
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Page 1 of 2

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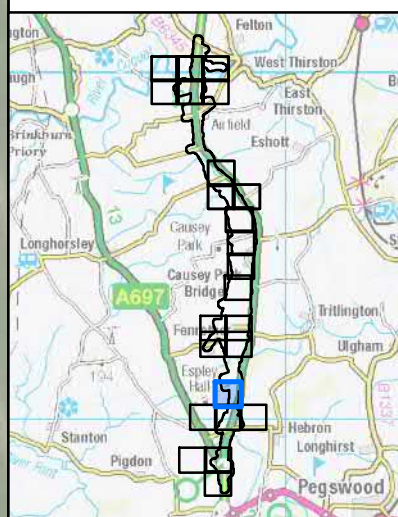


Key

- Order Limits
- Areas Excluded from Order Limits
- 100m Study area
- XX BoCC Red List Species
- XX BoCC Amber List Species
- XX BoCC Green List Species
- XX Introduced Species
- ➔ Bird in Flight
- Transect 9

Species List

- B - Blackbird
- BF - Bullfinch
- BH - Black-headed gull
- BT - Blue tit
- BZ - Buzzard
- C - Carrion crow
- CH - Chaffinch
- CM - Common gull
- CT - Coal tit
- D - Dunnock
- FF - Fieldfare
- GC - Goldcrest
- GL - Grey wagtail
- GO - Goldfinch
- GP - Golden plover
- GR - Greenfinch
- GT - Great tit
- H - Grey heron
- HG - Herring gull
- HS - House sparrow
- J - Jay
- JD - Jackdaw
- K - Kestrel
- L - Lapwing
- LB - Lesser black-backed gull
- LT - Long-tailed tit
- M - Mistle thrush
- MA - Mallard
- MG - Magpie
- MT - Marsh tit
- NH - Nuthatch
- P - Grey partridge
- PE - Peregrine falcon
- PH - Pheasant
- R - Robin
- RB - Reed bunting
- RE - Redwing
- RL - Red-legged partridge
- RN - Raven
- RO - Rook
- S - Skylark
- SD - Stock dove
- SG - Starling
- SH - Sparrowhawk
- ST - Song thrush
- TC - Treecreeper
- TS - Tree sparrow
- WP - Woodpigeon
- WR - Wren
- Y - Yellowhammer



Rev	Date	Description	By	Chk'd	App'd
P01	26/02/20	First Issue	GH	RP	KS

Client

Project Title: A1 in Northumberland: Morpeth to Felton

Drawing Title: Figure 10B Winter Bird Survey Results - Transect 9
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Suitability: S1

Drawing Number Project: HE551459	Originator: WSP	Volume: 6.2	Project Ref. No.: 70044136
M2F Location:	Type:	Role:	Number: P01

Appendix A

BTO BIRD SPECIES CODES

BTO Bird Species Codes

Code	Species	Code	Species
B.	Blackbird	MG	Magpie
BH	Black-headed Gull	MA`	Mallard
BT	Blue Tit	MT	Marsh Tit
BF	Bullfinch	M.	Mistle Thrush
BZ	Buzzard	MH	Moorhen
CG	Canada Goose	MS	Mute Swan
C.	Carrion Crow	NH	Nuthatch
CH	Chaffinch	OC	Oystercatcher
CT	Coal Tit	PE	Peregrine Falcon
CM	Common Gull	PW	Pied Wagtail
CO	Coot	PG	Pink-footed Goose
CU	Curlew	PO	Pochard
D.	Dunnock	KT	Red Kite
FF	Fieldfare	RE	Redwing
GC	Goldcrest	RB	Reed Bunting
GS	Great Spotted Woodpecker	R.	Robin
GT	Great Tit	RV	Raven
H.	Grey Heron	RO	Rook
GJ	Greylag Goose`	S.	Skylark
GO	Golden Plover	SH	Sparrowhawk
HG	Herring Gull	T.	Teal
JD	Jackdaw	TC	Treecreeper
J.	Jay	TS	Tree Sparrow

Code	Species	Code	Species
L.	Lapwing	TU	Tufted Duck
LB	Lesser Black-backed Gull	WN	Wigeon
LT	Long-tailed Tit	WP	Woodpigeon

Appendix B

REVISED NORTHUMBERLAND PRIORITY BIRD SPECIES LIST

Revised Northumberland Priority Bird Species List

Species	Species of Principle Importance	Species	Species of Principle Importance
Arctic tern		Merlin	
Avocet		Mistle thrush	
Barn owl		Peregrine	
Bar-tailed godwit		Pied flycatcher	
Bittern	Y	Pink-footed goose	
Black grouse	Y	Pochard	
Back-necked grebe		Puffin	
Brent goose (pale-bellied)		Purple sandpiper	
Common tern		Razorbill	
Cormorant		Red kite	
Corn bunting	Y	Redshank	
Cuckoo	Y	Reed bunting	Y
Curlew	Y	Ringed plover	
Dunlin		Roseate tern	Y
Eider		Sanderling	
Fulmar		Sandwich tern	
Golden plover		Shag	
Goldeneye		Shelduck	
Grasshopper warbler	Y	Skylark	Y
Grey partridge		Snipe	
Guillemot	Y	Song thrush	Y

Species	Species of Principle Importance	Species	Species of Principle Importance
Hen harrier		Spotted flycatcher	Y
House martin	Y	Starling	Y
House sparrow		Swallow	
Kestrel	Y	Swift	
Kittiwake		Tree pipit	Y
Lapwing	Y	Tree sparrow	Y
Lesser redpoll	Y	Turnstone	
Linnet	Y	Twite	Y
Little ringed plover		Willow tit	Y
Little tern		Willow warbler	
Marsh harrier		Yellow wagtail	Y
Marsh tit	Y	Yellowhammer	Y
Marsh warbler	Y		

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