

Norwich Western Link

Environmental Statement Chapter

10: Biodiversity – Appendix

10.13: Breeding Bird Report 2021

Part 2 of 3

Author: WSP

Document Reference: 3.10.13

Version Number: 00

Date: March 2024

Contents

1	Introduction	3
---	--------------------	---

1 Introduction

1.1.1 WSP UK Ltd was commissioned by Norfolk County Council (NCC) to complete breeding bird surveys, with the following objectives:

- Complete a robust breeding bird survey;
- Compile a list of bird species encountered and their breeding status (i.e. confirmed, probable or possible breeding, or not considered to be breeding on the Site); and
- Estimate of the likely number of territories / colonies of breeding bird species of conservation concern.

1.1.2 The results of the breeding bird survey are provided in this report and the survey findings will be used to inform the impact assessment and proposed mitigation for breeding birds across the Scheme. Details of this impact assessment and mitigation will be included within the Biodiversity Chapter of the Environmental Statement.

1.1.3 The Survey Area in relation to breeding birds comprised a walked transect approximately 13.3km long. Due to the length and size of the Survey Area, this transect was divided into three sections, one of which was walked on a separate day for each survey visit. The transects covered each habitat type suitable to support breeding birds that would be impacted by the Scheme, this included woodland, hedgerows, arable, scrub, wetland and grassland. The transects are shown on drawing 70061370-09-22-0002 (Appendix B).

1.1.4 The following Study Areas were used to inform the methodology and establish the baseline during the desk study:

- Internationally designated sites for birds were considered within 10km of the Scheme;
- Nationally designated sites for birds were considered within 5km of the Scheme; and

- Individual records of all bird species and non-statutory designated sites were requested within 2km of the Scheme.

1.1.5 We have included a summary of key information shown in this document in an accessible format. However, some users may not be able to access all technical details. If you require this document in a more accessible format please contact norwichwesternlink@norfolk.gov.uk



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

- Legend**
- Scheme Boundary
 - Transect Route:
 - Transect 1
 - Territories:
 - Skylark
 - Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

Revision Details	By	Date	Suffix	
Check				

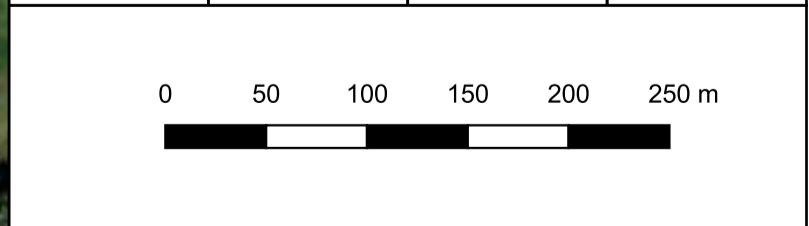
Drawing Status: **FINAL**

Job Title: **Norfolk County Council
Norwich Western Link**

Drawing Title: **Skylark Territories Transect 1**

Scale at A1: **1:3,750**

Drawn	UKMCW003		
Stage 1 Check	Stage 2 Check	Originated	Date
SM	IE	MW	05/11/2021

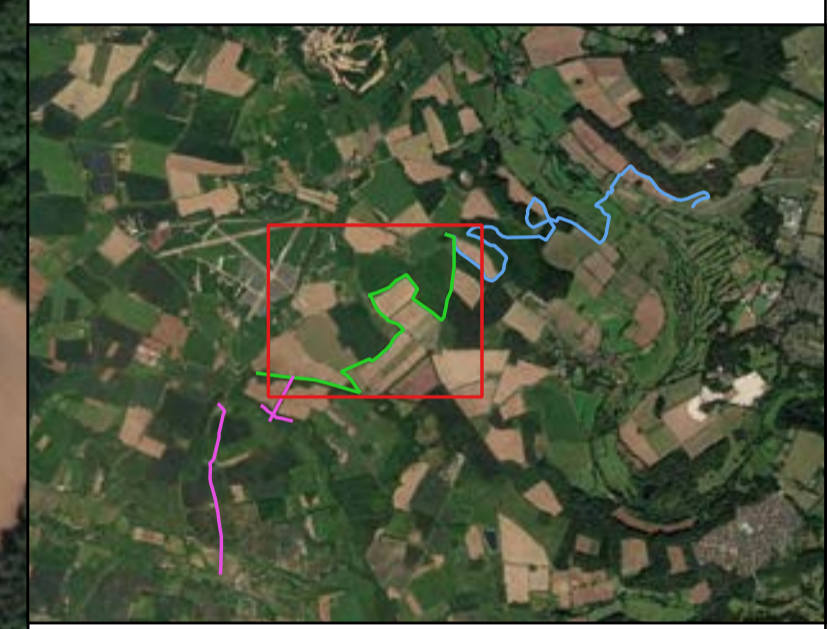


Drawing Number: **70061370-09-22-S.1**



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

- Legend**
- Scheme Boundary
 - Transect Route:
 - Transect 2
 - Territories:
 - Skylark
 - Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

--	--	--	--	--

Revision Details	By	Date	Suffix
	Check		

Drawing Status: **FINAL**

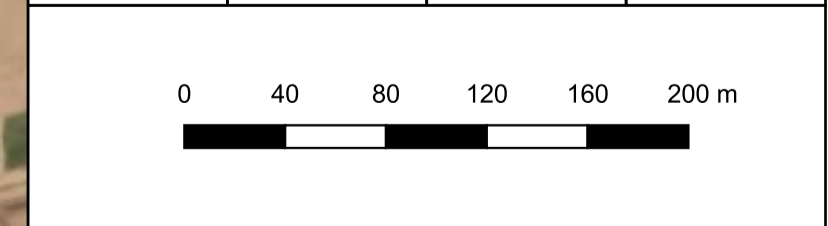
Job Title:
**Norfolk County Council
Norwich Western Link**

Drawing Title:
Skylark Territories Transect 2

Scale at A1: **1:3,000**

Drawn: UKMCW003

Stage 1 Check SM	Stage 2 Check IE	Originated MW	Date 05/11/2021
---------------------	---------------------	------------------	--------------------

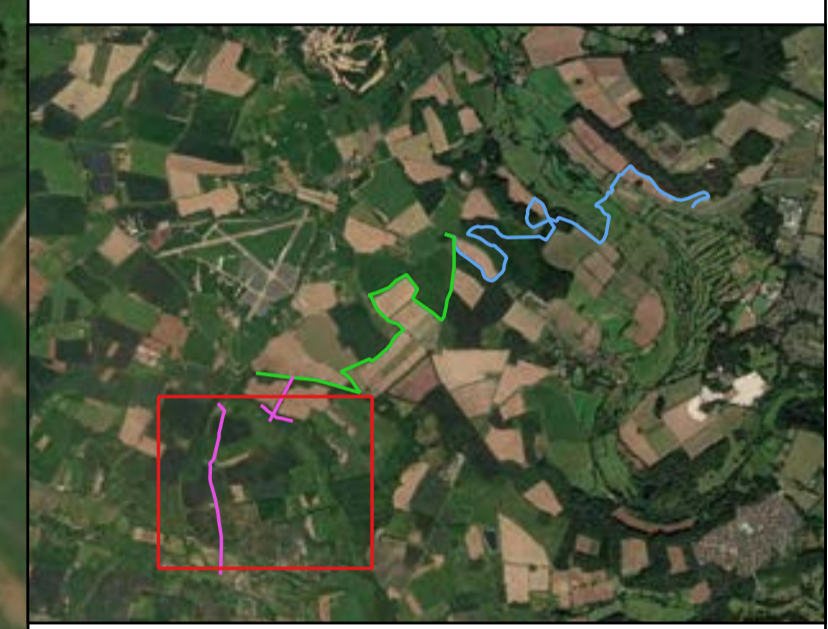


Drawing Number: **70061370-09-22-S.2**



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

- Legend**
- Scheme Boundary
 - Transect Route:
 - Transect 3
 - Territories:
 - Skylark
 - Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

--	--	--	--

Revision Details	By	Date	Suffix
------------------	----	------	--------

Drawing Status: **FINAL**

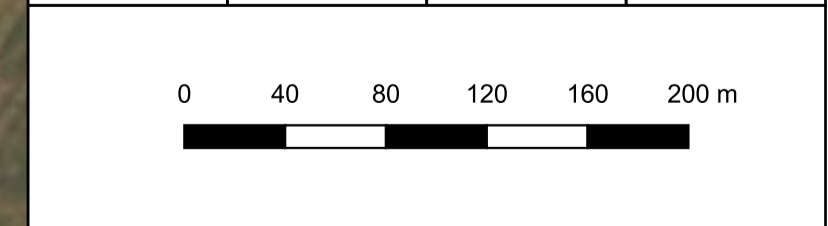
Job Title: **Norfolk County Council
Norwich Western Link**

Drawing Title: **Skylark Territories Transect 3**

Scale at A1: **1:3,000**

Drawn: UKMCW003

Stage 1 Check SM	Stage 2 Check IE	Originated MW	Date 05/11/2021
---------------------	---------------------	------------------	--------------------



Drawing Number: **70061370-09-22-S.3**



Appendix H – Song Thrush Territory Maps



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

- Legend**
- Scheme Boundary
 - Transect Route:
 - Transect 1
 - Territories:
 - Song Thrush
 - Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving



Copyright
 This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office.
 © Crown copyright
 Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
 Contains Ordnance Survey data. License No. 100019340
 © Crown copyright and database right 2019

Revision Details	By	Date	Suffix
	Check		

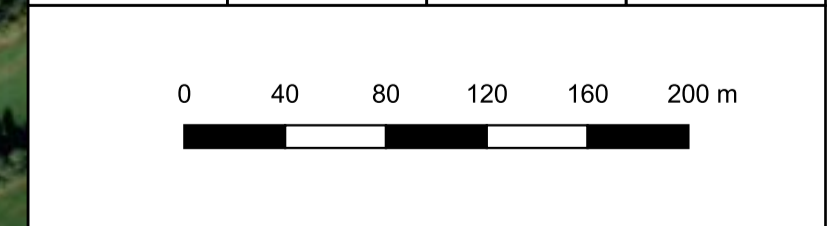
Drawing Status **FINAL**

Job Title
**Norfolk County Council
 Norwich Western Link**

Drawing Title
**Song Thrush Territories Transect
 1**

Scale at A1 **1:3,000**

Drawn	UKMCW003		
Stage 1 Check	Stage 2 Check	Originated	Date
SM	IE	MW	05/11/2021

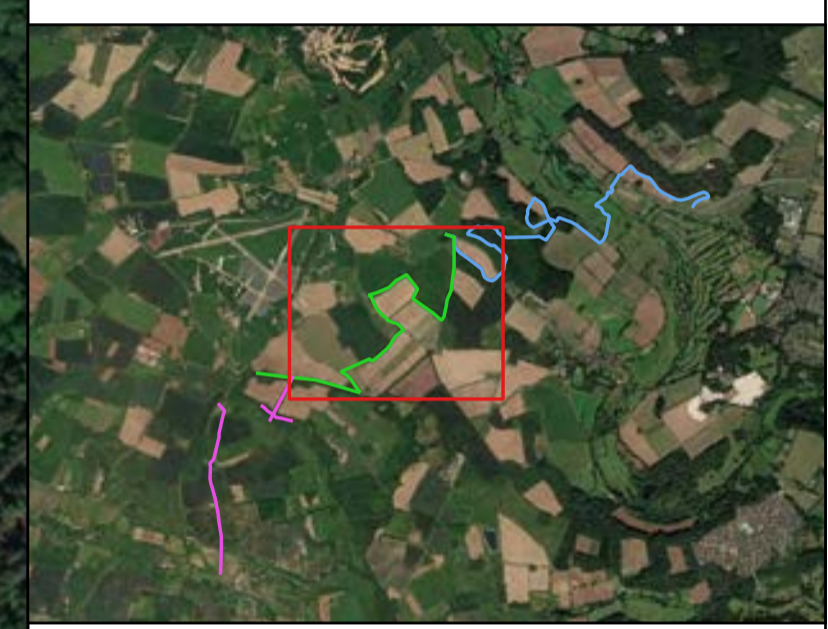


Drawing Number
70061370-09-22-ST.1



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

- Legend**
- Scheme Boundary
 - Transect Rout:
 - Transect 2
 - Territories:
 - Song Thrush
 - Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving



Copyright
 This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office.
 © Crown copyright
 Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
 Contains Ordnance Survey data. License No. 100019340
 © Crown copyright and database right 2019

Revision Details	By	Date	Suffix
	Check		

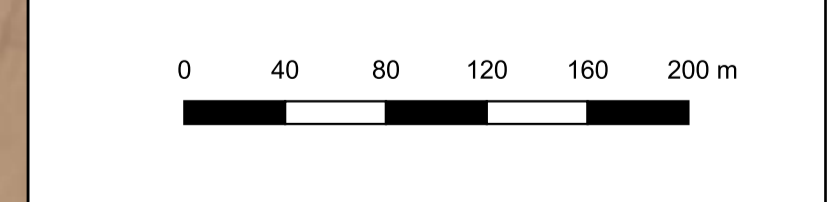
Drawing Status
FINAL

Job Title
**Norfolk County Council
 Norwich Western Link**

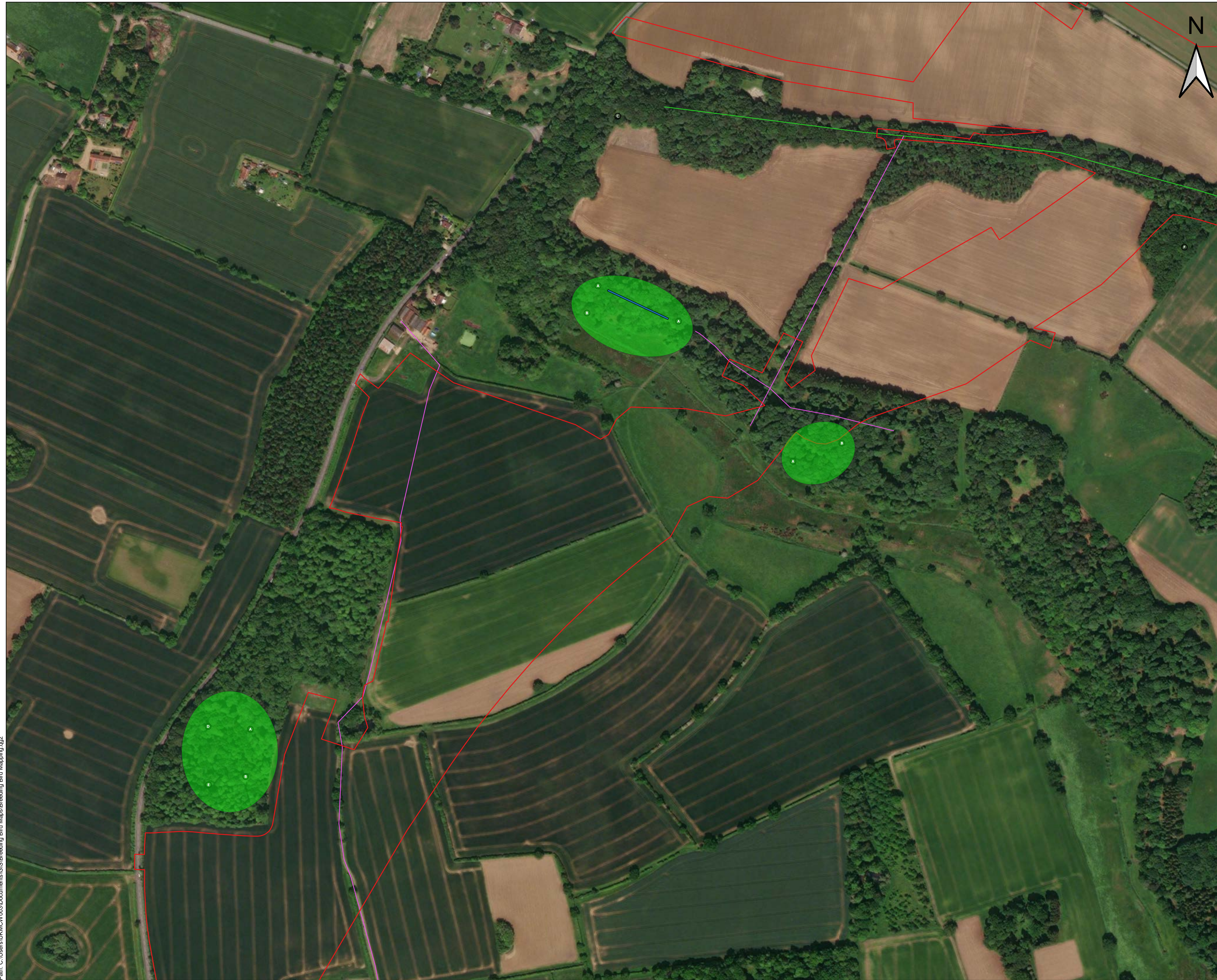
Drawing Title
**Song Thrush Territories Transect
 2**

Scale at A1
1:3,000

Drawn	UKMCW003	Date	05/11/2021
Stage 1 Check	SM	Stage 2 Check	IE
Originated	MW		



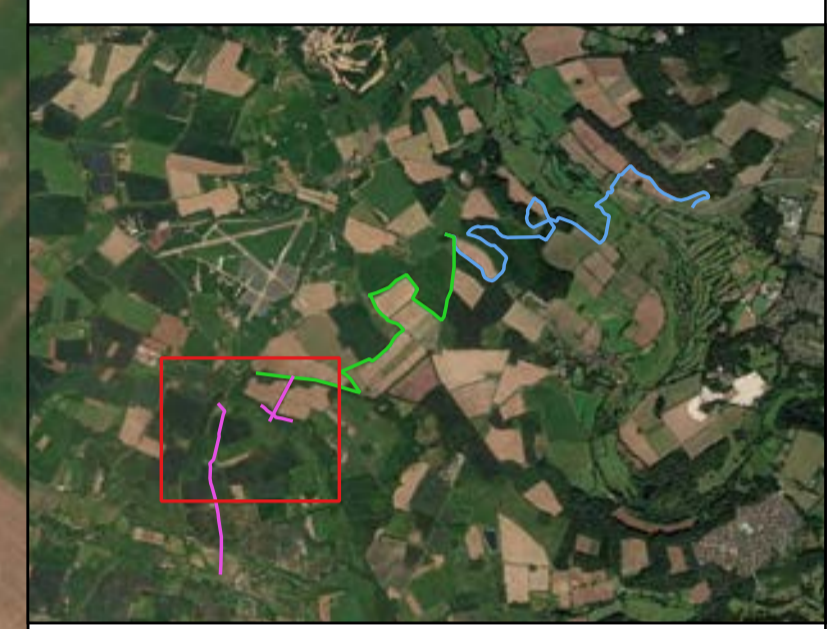
Drawing Number
70061370-09-22-ST.2



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED



- Legend**
- Scheme Boundary
 - Transect Routes:**
 - Transect 2
 - Transect 3
 - Territories:**
 - Song Thrush
 - Notation:**
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

Revision Details	By	Date	Suffix
	/		
Drawing Status	FINAL		

Job Title

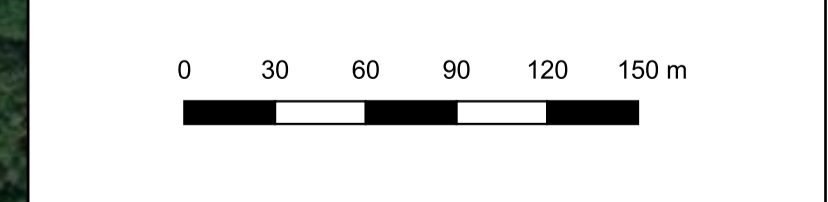
**Norfolk County Council
Norwich Western Link**

Drawing Title

**Song Thrush Territories Transect
3**

Scale at A1 **1:2,500**

Drawn	UKMCW003		
Stage 1 Check	SM	Stage 2 Check	IE
Originated	MW	Date	05/11/2021



Drawing Number

70061370-09-22-ST.3

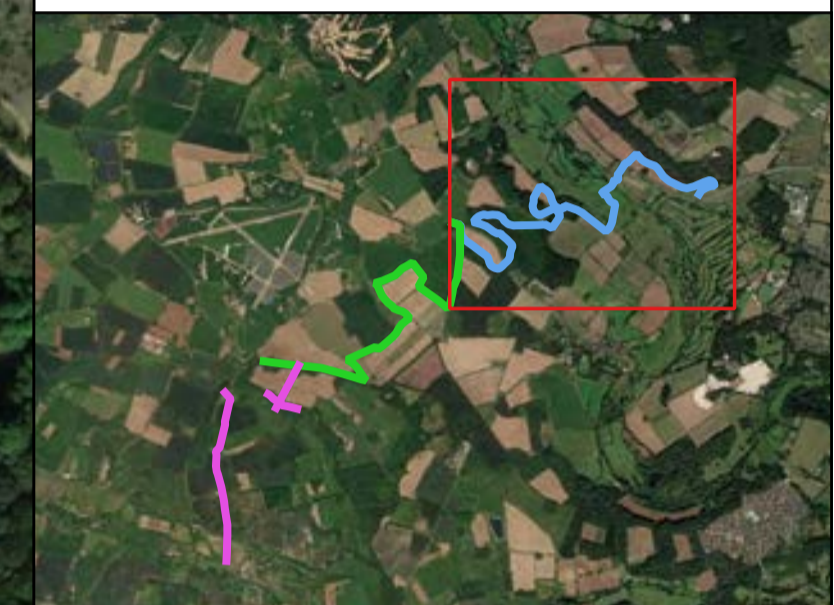


Appendix I – Whitethroat Territory Maps

THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

Legend

- Scheme Boundary
- Transect Route:
 - Transect 1
 - Transect 2
 - Transect 3
- Territories:
 - Whitethroat
- Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving
 - ★ Nest



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340 © Crown copyright and database right 2019

Revision Details	By	Date	Suffix

Drawing Status	FINAL
----------------	-------

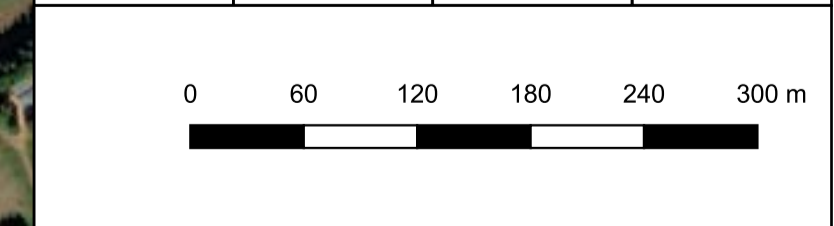
Job Title	Norfolk County Council Norwich Western Link
-----------	--

Drawing Title	Whitethroat Transect 1
---------------	------------------------

Scale at A1	1:4,000
-------------	---------

Drawn	UKMCW003
-------	----------

Stage 1 Check	Stage 2 Check	Originated	Date
SM	IE	MW	06/12/2021



Drawing Number	70061370-09-22-WH1
----------------	--------------------

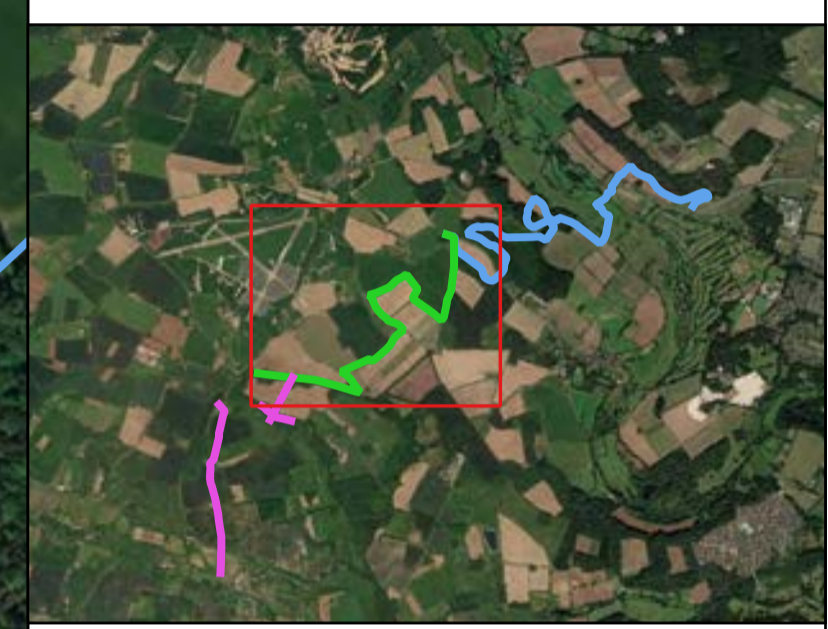
Path: C:\Users\UKMCW003\Documents\GIS\Breeding Bird Maps\Breeding Bird Mapping.qgz



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED



- Legend**
- ▭ Scheme Boundary
 - Transect Route:**
 - Transect 1
 - Transect 2
 - Transect 3
 - Territories:**
 - Whitethroat
 - Notation:**
 - Singing
 - Contact Call
 - Singing Together
 - ≡ Alarm Call
 - Flight Lines
 - Same Bird Moving
 - ★ Nest



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

--	--	--	--

Revision Details	By	Date	Suffix
	Check		

Drawing Status **FINAL**

Job Title

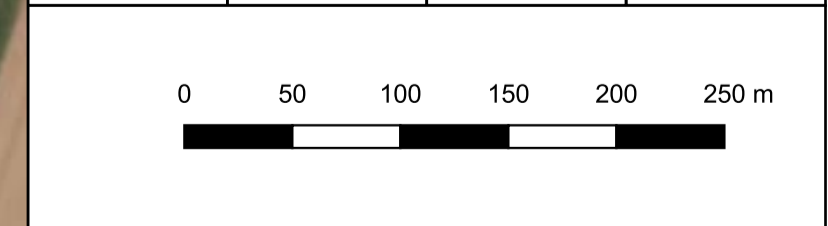
**Norfolk County Council
Norwich Western Link**

Drawing Title

Whitethroat Transect 2

Scale at A1 **1:3,500**

Drawn	UKMCW003	Originalled	Date
Stage 1 Check	Stage 2 Check		
SM	IE	MW	06/12/2021



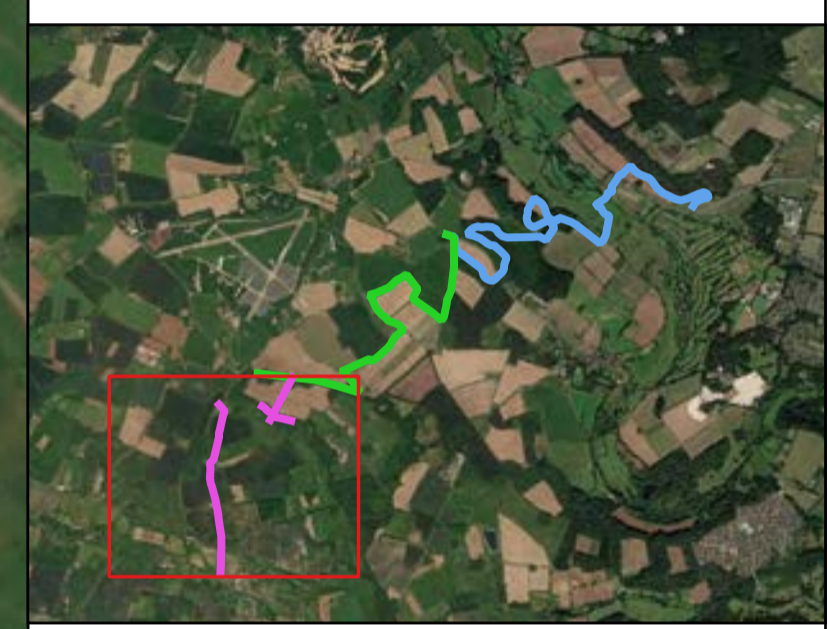
Drawing Number

70061370-09-22-WH2



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

- Legend**
- Scheme Boundary
 - Transect Route:
 - Transect 1
 - Transect 2
 - Transect 3
 - Territories:
 - Whitethroat
 - Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving
 - ★ Nest



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

Revision Details	By Check	Date	Suffix

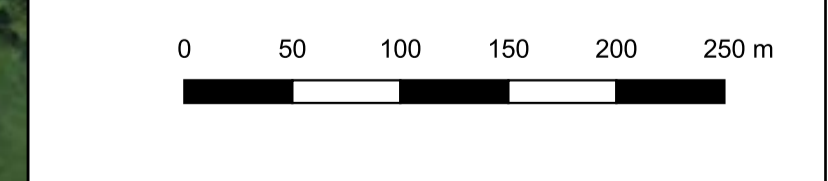
Drawing Status: **FINAL**

Job Title:
**Norfolk County Council
Norwich Western Link**

Drawing Title:
Whitethroat Transect 3

Scale at A1: **1:3,500**

Drawn: UKMCW003			
Stage 1 Check SM	Stage 2 Check IE	Originated MW	Date 06/12/2021



Drawing Number: **70061370-09-22-WH3**

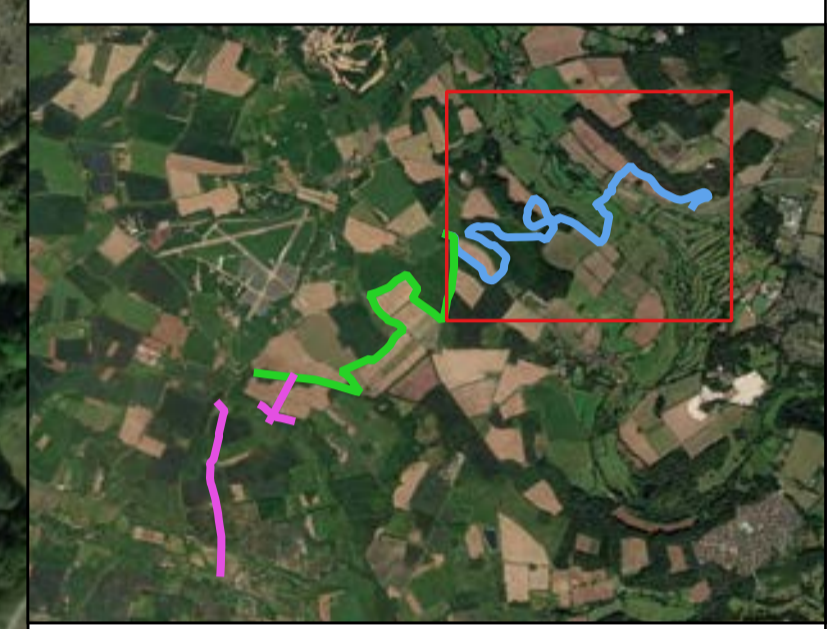


Appendix J – Wren Territory Maps



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

- Legend**
- ▭ Scheme Boundary
 - Transect Route:**
 - Transect 1
 - Transect 2
 - Transect 3 - Territories:**
 - Wren - Notation:**
 - Singing
 - Contact Call
 - Singing Together
 - ≡ Alarm Call
 - ⇒ Flight Lines
 - Same Bird Moving
 - ★ Nest



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

--	--	--	--	--

Revision Details	By	Date	Suffix
------------------	----	------	--------

Drawing Status: **FINAL**

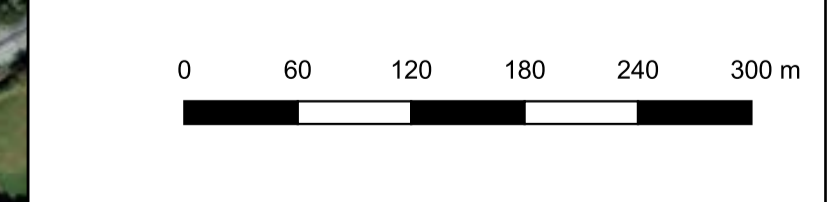
Job Title: **Norfolk County Council
Norwich Western Link**

Drawing Title: **Wren Territories Transect 1**

Scale at A1: **1:4,000**

Drawn: UKMCW003

Stage 1 Check SM	Stage 2 Check IE	Originated MW	Date 06/12/2021
---------------------	---------------------	------------------	--------------------

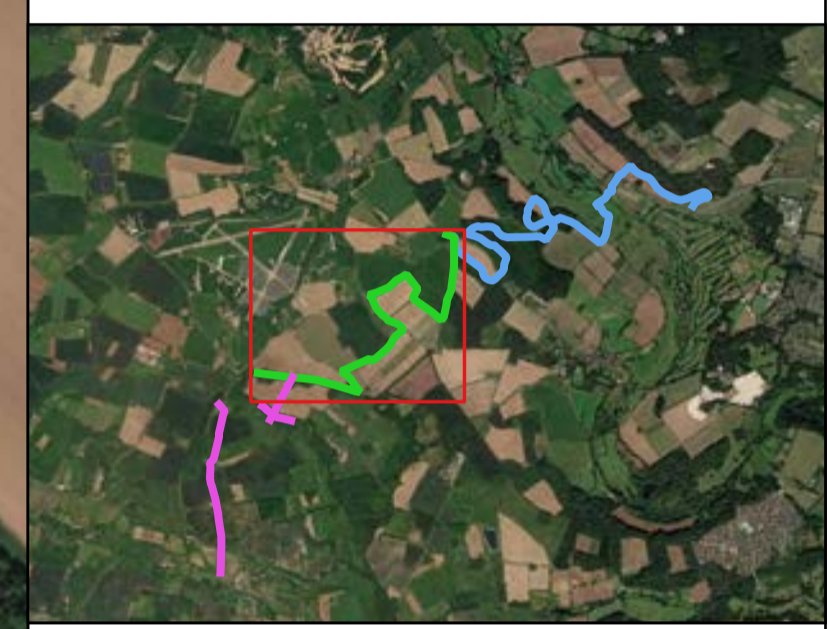


Drawing Number: **70061370-09-22-WR1**



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

- Legend**
- Scheme Boundary
 - Transect Route:**
 - Transect 1
 - Transect 2
 - Transect 3
 - Territories:**
 - Wren
 - Notation:**
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving
 - ★ Nest



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

Revision Details	By	Date	Suffix
	Check		

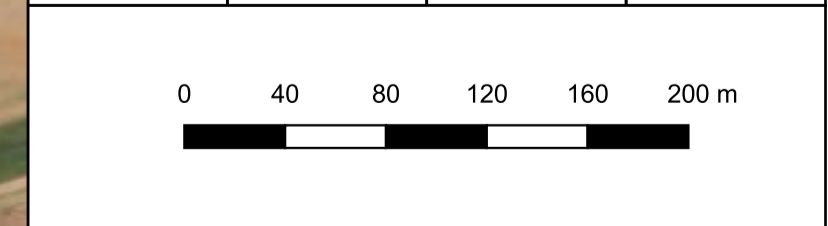
Drawing Status: **FINAL**

Job Title: **Norfolk County Council
Norwich Western Link**

Drawing Title: **Wren Territories Transect 2**

Scale at A1: **1:3,000**

Drawn	UKMCW003
Stage 1 Check	SM
Stage 2 Check	IE
Originated	MW
Date	06/12/2021



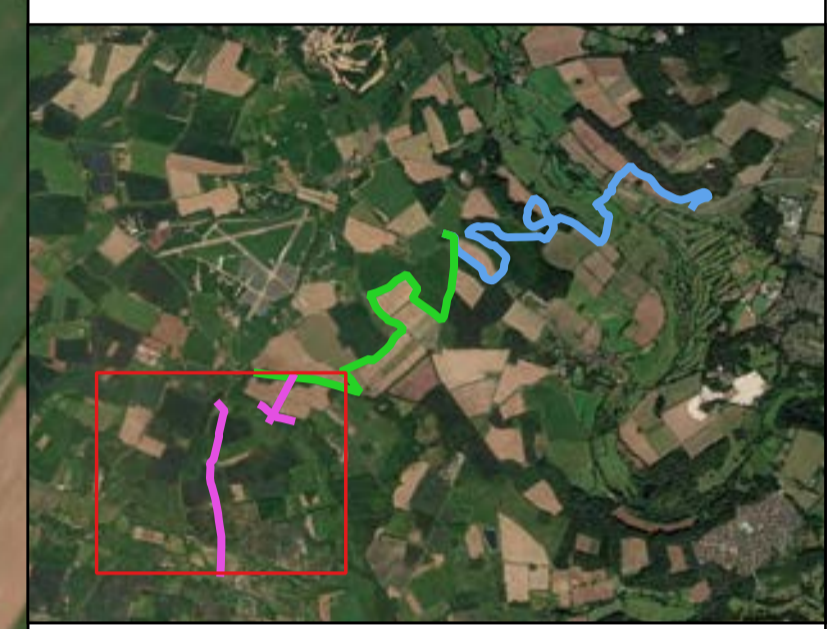
Drawing Number: **70061370-09-22-WR2**



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

Legend

- Scheme Boundary
- Transect Route:
 - Transect 1
 - Transect 2
 - Transect 3
- Territories:
 - Wren
- Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving
 - ★ Nest



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

Revision Details	By Check	Date	Suffix

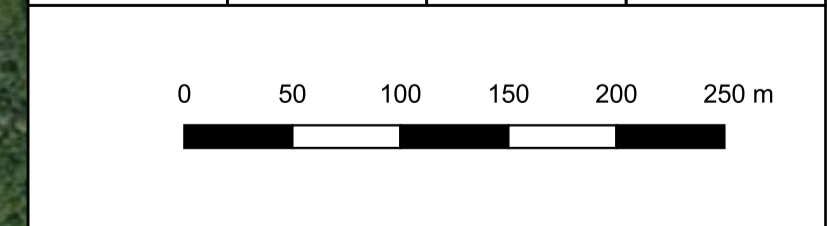
Drawing Status: **FINAL**

Job Title:
**Norfolk County Council
Norwich Western Link**

Drawing Title:
Wren Territories Transect 3

Scale at A1: **1:3,500**

Drawn	UKMCW003		
Stage 1 Check	Stage 2 Check	Originated	Date
SM	IE	MW	06/12/2021



Drawing Number:
70061370-09-22-WR3



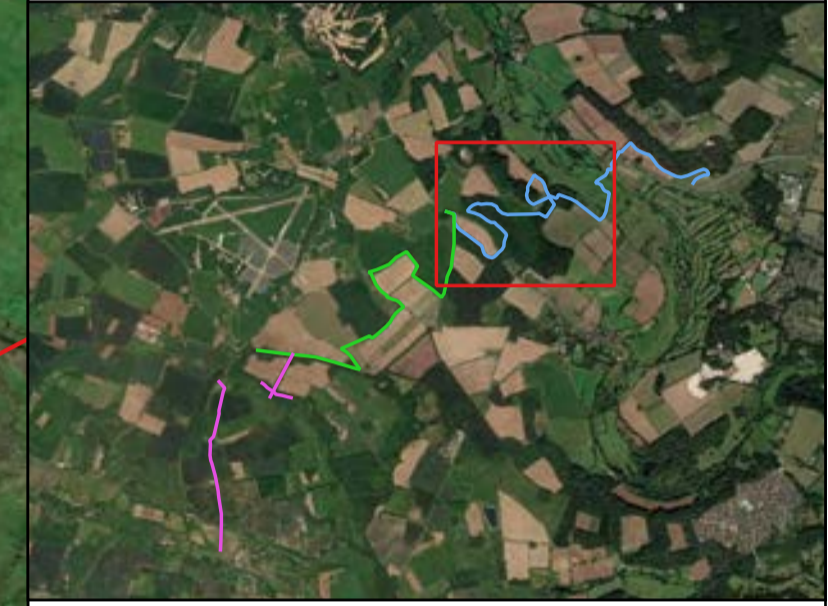
Appendix K - Yellowhammer Territory Maps



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

Legend

- Scheme Boundary
- Transect Route:
 - Transect 1
- Territories:
 - Yellowhammer
- Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving
 - ★ Nest



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

--	--	--	--	--

Revision Details	By	Date	Suffix
------------------	----	------	--------

Drawing Status: **FINAL**

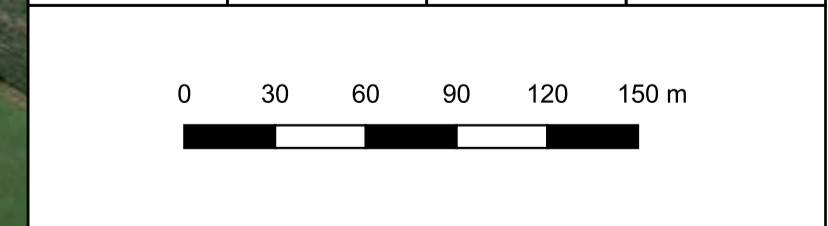
Job Title:
**Norfolk County Council
Norwich Western Link**

Drawing Title:
**Yellowhammer Territories
Transect 1**

Scale at A1: **1:2,500**

Drawn: UKMCW003

Stage 1 Check SM	Stage 2 Check IE	Originated MW	Date 09/11/2021
---------------------	---------------------	------------------	--------------------

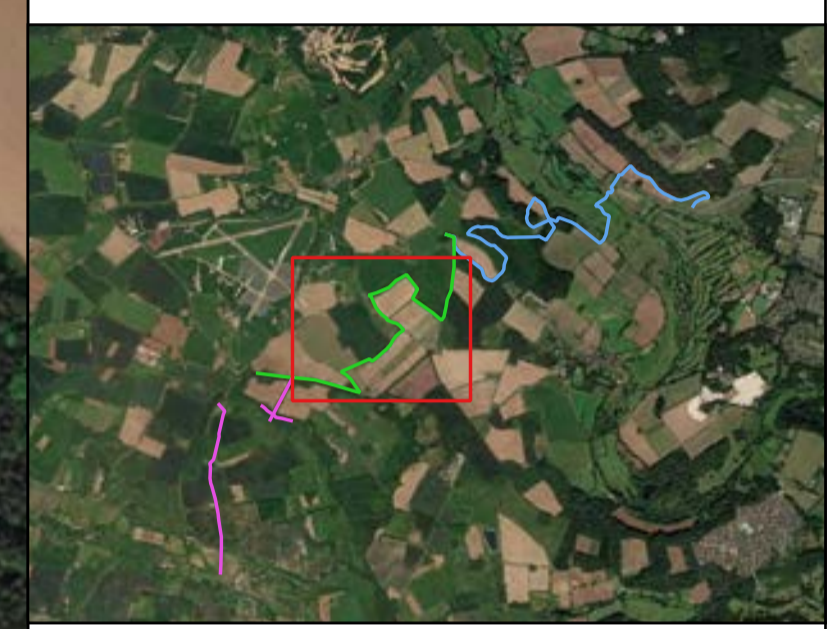


Drawing Number:
70061370-09-22-Y.1



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

- Legend**
- Scheme Boundary
 - Transect Route:
 - Transect 2
 - Territories:
 - Yellowhammer
 - Notation:
 - Singing
 - Contact Call
 - Singing Together
 - Alarm Call
 - Flight Lines
 - Same Bird Moving
 - ★ Nest



Copyright

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office.

© Crown copyright

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.

Contains Ordnance Survey data. License No. 100019340
© Crown copyright and database right 2019

--	--	--	--	--

Revision Details	By	Date	Suffix
------------------	----	------	--------

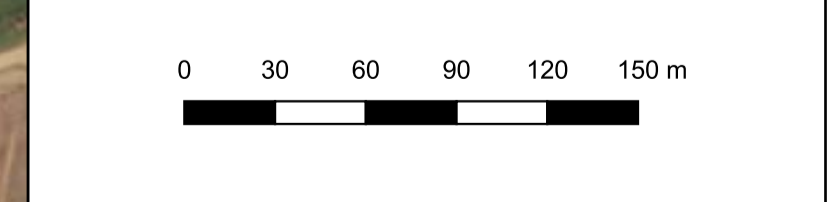
Drawing Status: **FINAL**

Job Title:
**Norfolk County Council
Norwich Western Link**

Drawing Title:
**Yellowhammer Territories
Transect 2**

Scale at A1: **1:2,500**

Drawn	UKMCW003		
Stage 1 Check	Stage 2 Check	Originated	Date
SM	IE	MW	09/11/2021



Drawing Number:
70061370-09-22-Y.2