

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

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

# **Dogger Bank South Offshore Wind Farms**

**Environmental Statement**

**Volume 7**

**Appendix 18-7 Ornithology Overwintering Report**

**Part 3 of 3**

**June 2024**

**Application Reference: 7.18.18.7**

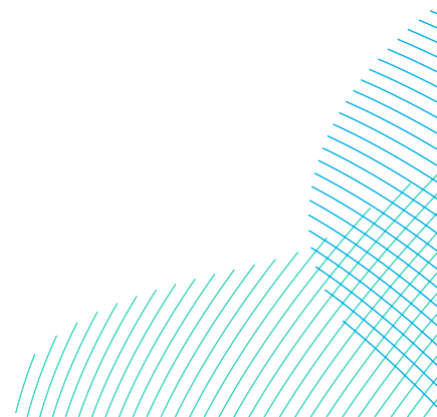
**APFP Regulation: 5(2)(a)**

**Revision: 01**

**Unrestricted**



Company:	<b>RWE Renewables UK Dogger Bank South (West) Limited and RWE Renewables UK Dogger Bank South (East) Limited</b>	Asset:	<b>Development</b>		
Project:	<b>Dogger Bank South Offshore Wind Farms</b>	Sub Project/Package:	<b>Consents</b>		
Document Title or Description:	Environmental Statement – Appendix 18-7 Ornithology Overwintering Report – Part 3 of 3				
Document Number:	004300159-01	Contractor Reference Number:	PC2340-PEA-ON-ZZ-AX-Z-0113		
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<b>Rev No.</b>	<b>Date</b>	<b>Status/Reason for Issue</b>	<b>Author</b>	<b>Checked by</b>	<b>Approved by</b>
01	June 2024	Final for DCO Application	Peak Ecology	RWE	RWE



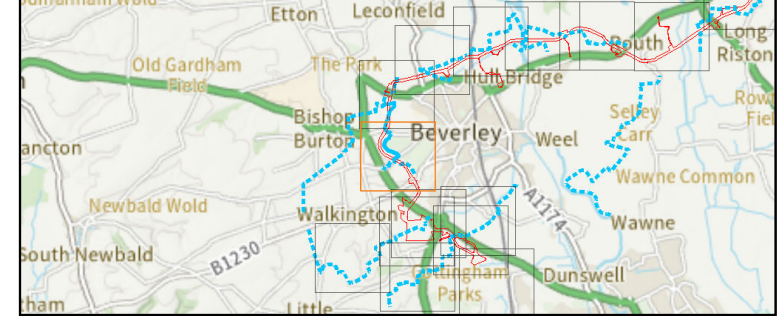
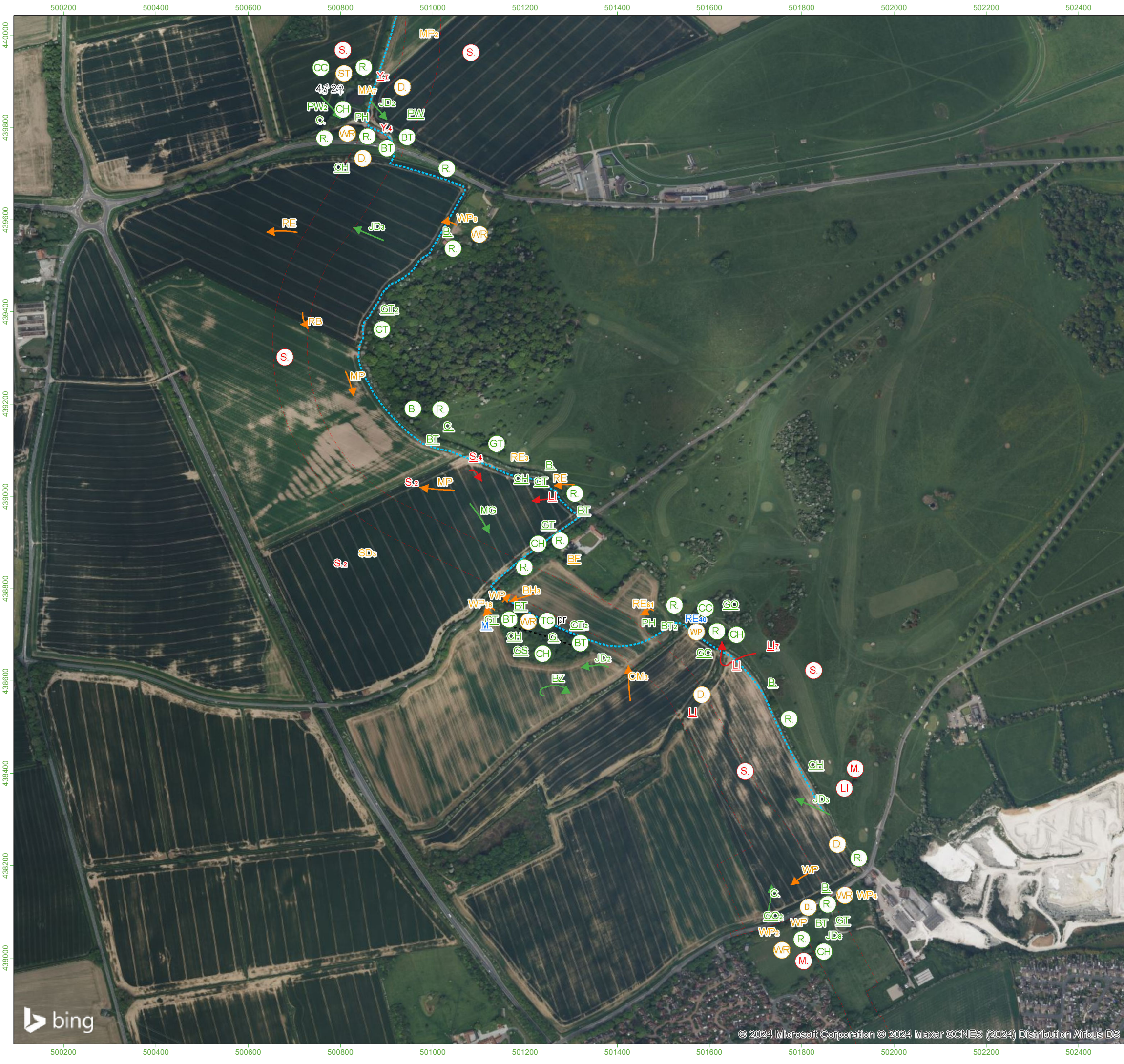












**Survey Information**

<span style="border: 1px dashed red; padding: 2px;"> </span>	Onshore Development Area	<span style="color: blue; text-decoration: dotted underline;"> </span>	Transect route
x	Bird - alarm call	<span style="color: red;">→</span>	Red
x	Bird sighting	<span style="color: orange;">→</span>	Amber
x	Bird calling	<span style="color: green;">→</span>	Green
(x)	Bird singing	—	Same bird
(X)	Bird - aggressive encounter	-----	In song at same time

**Additional Information**  
 Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:  
 Red Status = Red, Amber Status = Amber, Green/No Status = Green  
 Where more than one bird is observed then the size of the flock is in text alongside the record.

<b>Red listed species</b>	MH - Moorhen	GC - Goldcrest
CB - Corn Bunting	MP - Meadow Pipit	GG - Great Crested Grebe
CU - Curlew	MR - Marsh Harrier	GO - Goldfinch
FF - Fieldfare	MS - Mute Swan	GP - Golden Plover
GN - Goldeneye	OC - Oystercatcher	GS - Great Spotted Woodpecker
GR - Greenfinch	PG - Pink-footed Goose	GT - Great Tit
HG - Herring Gull	RE - Redwing	H - Grey Heron
HS - House Sparrow	RB - Reed Bunting	J - Jay
L - Lapwing	RO - Rook	JD - Jackdaw
LI - Linnet	SD - Stock Dove	JS - Jack Snipe
LR - Lesser Redpoll	SH - Sparrowhawk	KT - Red Kite
M - Mistle Thrush	SN - Snipe	LG - Little Grebe
MT - Marsh Tit	SS - Sanderling	LT - Long-tailed Tit
P - Grey Partridge	ST - Song Thrush	MG - Magpie
RP - Ringed Plover	SV - Shoveler	NH - Nuthatch
RU - Ruff	T - Teal	PE - Peregrine
S - Skylark	TO - Tawny Owl	PH - Pheasant
SG - Starling	WN - Wigeon	PW - Pied Wagtail
TS - Tree Sparrow	WP - Wood Pigeon	R - Robin
WK - Woodcock	WR - Wren	RH - Red-throated Diver
Y - Yellowhammer	WS - Whooper Swan	RL - Red-legged Partridge
<b>Amber listed species</b>	<b>Green listed species</b>	SC - Stonechat
BF - Bullfinch	B - Blackbird	SK - Siskin
BG - Brent Goose	BC - Blackcap	SL - Swallow
BH - Black-headed Gull	BL - Brambling	TC - Treecreeper
CM - Common Gull	BO - Barn Owl	WA - Water Rail
D - Dunnock	BT - Blue Tit	
E - Eider	BZ - Buzzard	
F - Fulmar	C - Carrion Crow	
GA - Gadwall	CA - Cormorant	
GB - Great Black-backed Gull	CC - Chiffchaff	
GE - Green Sandpiper	CD - Collared Dove	
GJ - Greylag Goose	CH - Chaffinch	
GL - Grey Wagtail	CO - Coot	
GV - Grey Plover	CT - Coal Tit	
HW - Great Egret	CW - Cetti's Warbler	
K - Kestrel	ET - Little Egret	
KF - Kingfisher	FP - Feral Pigeon	
LB - Lesser Black-backed Gull	G - Green Woodpecker	
MA - Mallard		

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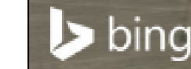
PROJECT TITLE  
**DOGGER BANK SOUTH - WINTERING BIRD SURVEY**

DRAWING TITLE  
**Figure 79. Transect 6, Visit 6 (March)**

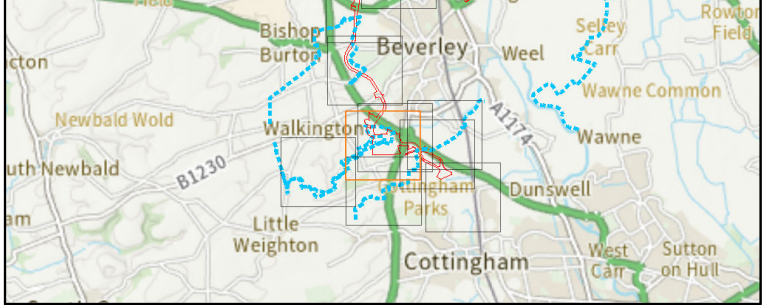
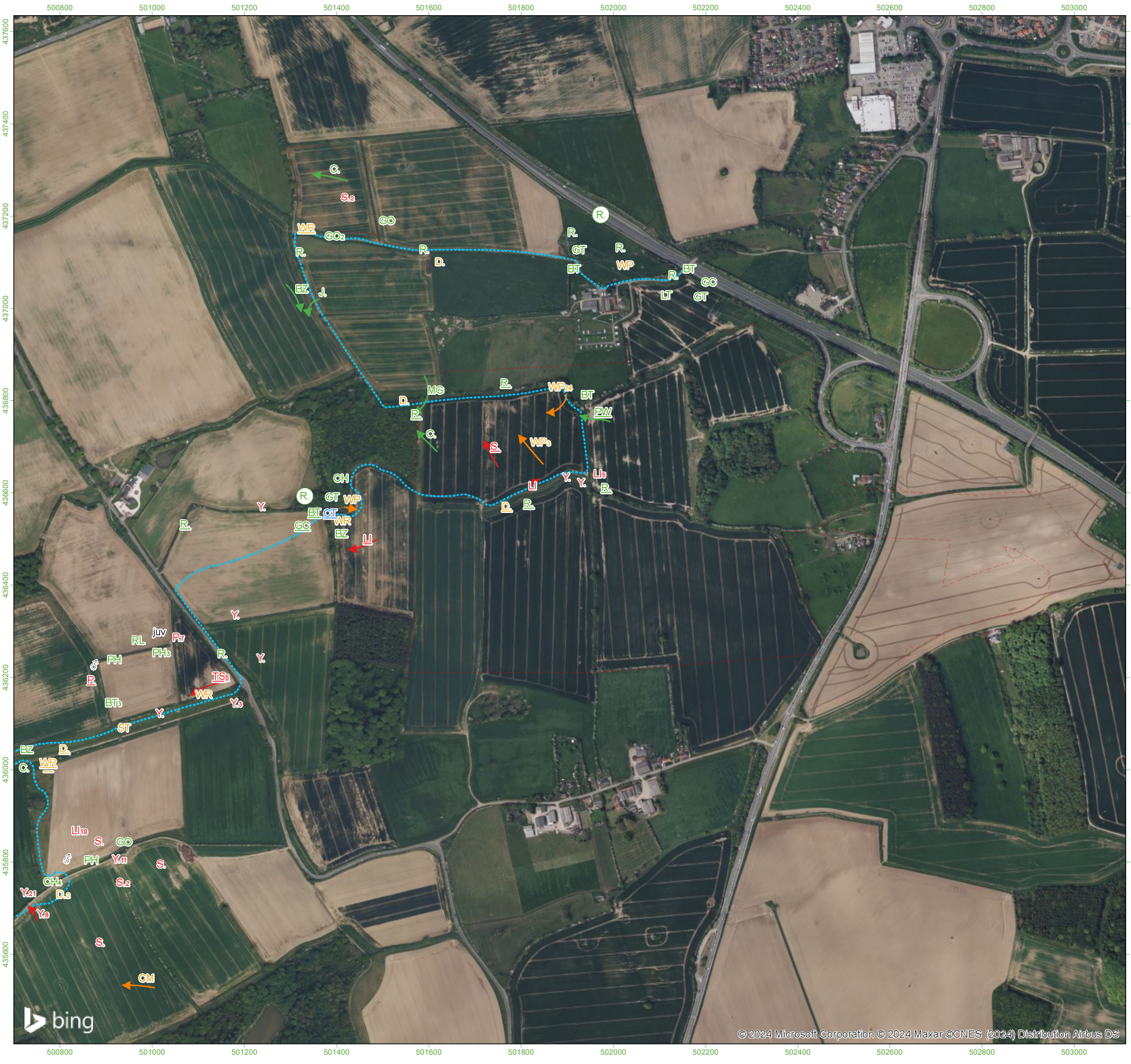
VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T6_V6	MP	CP

DRAWING NUMBER: **PeakEcology/DB2WBS2223/T6\_V6**

<p>ECOLOGICAL CONSULTANTS</p>	<p>Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk</p>	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:8,000







**Survey Information**

- Onshore Development Area
- Transect route
- x Bird - alarm call
- x Bird sighting
- x Bird calling
- x Bird singing
- / Bird - aggressive encounter
- Red
- Amber
- Green
- Same bird
- In song at same time

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

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

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

- |  |   |  |
|--|---|--|
| <p><b>Red listed species</b></p> <ul style="list-style-type: none"> <li>CB - Corn Bunting</li> <li>CU - Curlew</li> <li>FF - Fieldfare</li> <li>GN - Goldeneye</li> <li>GR - Greenfinch</li> <li>HG - Herring Gull</li> <li>HS - House Sparrow</li> <li>L - Lapwing</li> <li>LI - Linnet</li> <li>LR - Lesser Redpoll</li> <li>M - Mistle Thrush</li> <li>MT - Marsh Tit</li> <li>P - Grey Partridge</li> <li>RP - Ringed Plover</li> <li>RU - Ruff</li> <li>S - Skylark</li> <li>SG - Starling</li> <li>TS - Tree Sparrow</li> <li>WK - Woodcock</li> <li>Y - Yellowhammer</li> </ul> | <p><b>Amber listed species</b></p> <ul style="list-style-type: none"> <li>BF - Bullfinch</li> <li>BG - Brent Goose</li> <li>BH - Black-headed Gull</li> <li>CM - Common Gull</li> <li>D - Dunnock</li> <li>E - Eider</li> <li>F - Fulmar</li> <li>GA - Gadwall</li> <li>GB - Great Black-backed Gull</li> <li>GE - Green Sandpiper</li> <li>GJ - Greylag Goose</li> <li>GL - Grey Wagtail</li> <li>GV - Grey Plover</li> <li>HW - Great Egret</li> <li>K - Kestrel</li> <li>KF - Kingfisher</li> <li>LB - Lesser Black-backed Gull</li> <li>MA - Mallard</li> </ul>   | <p><b>Green listed species</b></p> <ul style="list-style-type: none"> <li>B - Blackbird</li> <li>BC - Blackcap</li> <li>BL - Brambling</li> <li>BO - Barn Owl</li> <li>BT - Blue Tit</li> <li>C - Carrion Crow</li> <li>CA - Cormorant</li> <li>CC - Chiffchaff</li> <li>CD - Collared Dove</li> <li>CH - Chaffinch</li> <li>CO - Coot</li> <li>CT - Coal Tit</li> <li>CW - Cetti's Warbler</li> <li>ET - Little Egret</li> <li>FP - Feral Pigeon</li> <li>G - Green Woodpecker</li> </ul> |
| <p>MH - Moorhen</p> <p>MP - Meadow Pipit</p> <p>MR - Marsh Harrier</p> <p>MS - Mute Swan</p> <p>OC - Oystercatcher</p> <p>PG - Pink-footed Goose</p> <p>RB - Reed Bunting</p> <p>RE - Redwing</p> <p>RK - Redshank</p> <p>RO - Rook</p> <p>SD - Stock Dove</p> <p>SH - Sparrowhawk</p> <p>SN - Snipe</p> <p>SS - Sanderling</p> <p>ST - Song Thrush</p> <p>SV - Shoveler</p> <p>T - Teal</p> <p>TO - Tawny Owl</p> <p>WN - Wigeon</p> <p>WP - Wood Pigeon</p> <p>WR - Wren</p> <p>WS - Whooper Swan</p>  | <p>GC - Goldcrest</p> <p>GG - Great Crested Grebe</p> <p>GO - Goldfinch</p> <p>GP - Golden Plover</p> <p>GS - Great Spotted Woodpecker</p> <p>GT - Great Tit</p> <p>H - Grey Heron</p> <p>J - Jay</p> <p>JD - Jackdaw</p> <p>JS - Jack Snipe</p> <p>KT - Red Kite</p> <p>LG - Little Grebe</p> <p>LT - Long-tailed Tit</p> <p>MG - Magpie</p> <p>NH - Nuthatch</p> <p>PE - Peregrine</p> <p>PH - Pheasant</p> <p>PW - Pied Wagtail</p> <p>R - Robin</p> <p>RH - Red-throated Diver</p> <p>RL - Red-legged Partridge</p> <p>SC - Stonechat</p> <p>SK - Skink</p> <p>SL - Slowly</p> <p>TC - Treecreeper</p> <p>WA - Water Rail</p> |  |



PROJECT TITLE  
**DOGGER BANK SOUTH - WINTERING BIRD SURVEY**

DRAWING TITLE  
**Figure 80. Transect 7, Visit 1 (October)**

VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T7_V1	MP	CP

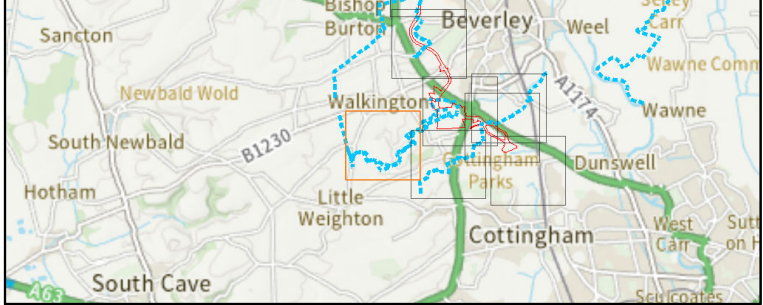
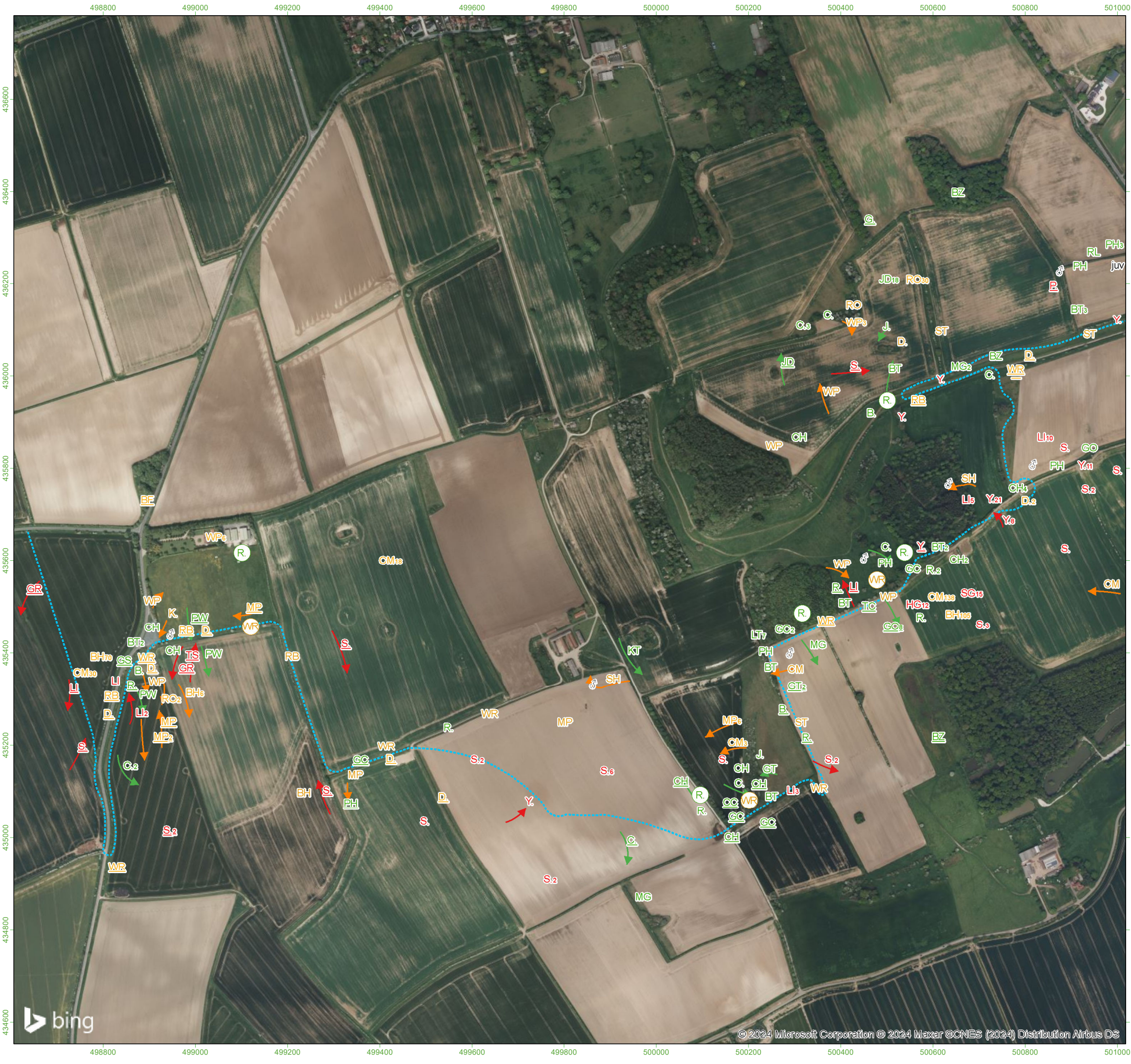
DRAWING NUMBER: **PeakEcology/DB2WBS2223/T7\_V1**

**peakecology**  
ECOLOGICAL CONSULTANTS

Arden House,  
Deepdale Business Park,  
Bakewell,  
Derbyshire,  
DE45 1GT.  
[www.peakecology.co.uk](http://www.peakecology.co.uk)

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:8,000





**Survey Information**

- Onshore Development Area
- Transect route
- x Bird - alarm call
- x Bird sighting
- x Bird calling
- x Bird singing
- x Bird - aggressive encounter
- Red
- Amber
- Green
- Same bird
- In song at same time

**Additional Information**  
 Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:  
 Red Status = Red, Amber Status = Amber, Green/No Status = Green  
 Where more than one bird is observed then the size of the flock is in text alongside the record.

- |                               |                        |                               |
|-------------------------------|------------------------|-------------------------------|
| <b>Red listed species</b>     | MH - Moorhen           | GC - Goldcrest                |
| CB - Corn Bunting             | MP - Meadow Pipit      | GG - Great Crested Grebe      |
| CU - Curlew                   | MR - Marsh Harrier     | GO - Goldfinch                |
| FF - Fieldfare                | MS - Mute Swan         | GP - Golden Plover            |
| GN - Goldeneye                | OC - Oystercatcher     | GS - Great Spotted Woodpecker |
| GR - Greenfinch               | PG - Pink-footed Goose | GT - Great Tit                |
| HG - Herring Gull             | RB - Reed Bunting      | H - Grey Heron                |
| HS - House Sparrow            | RE - Redwing           | J - Jay                       |
| L - Lapwing                   | RK - Redshank          | JD - Jackdaw                  |
| LI - Linnet                   | RO - Rook              | JS - Jack Snipe               |
| LR - Lesser Redpoll           | SD - Stock Dove        | KT - Red Kite                 |
| M - Mistle Thrush             | SH - Sparrowhawk       | LG - Little Grebe             |
| MT - Marsh Tit                | SN - Snipe             | LT - Long-tailed Tit          |
| P - Grey Partridge            | SS - Sanderling        | MG - Magpie                   |
| RP - Ringed Plover            | ST - Song Thrush       | NH - Nuthatch                 |
| RU - Ruff                     | SV - Shoveler          | PE - Peregrine                |
| S - Skylark                   | T - Teal               | PH - Pheasant                 |
| SG - Starling                 | TO - Tawny Owl         | PW - Pied Wagtail             |
| TS - Tree Sparrow             | WN - Wigeon            | R - Robin                     |
| WK - Woodcock                 | WP - Wood Pigeon       | RH - Red-throated Diver       |
| Y - Yellowhammer              | WR - Wren              | RL - Red-legged Partridge     |
|                               | WS - Whooper Swan      | SC - Stonechat                |
| <b>Amber listed species</b>   |                        | SK - Siskin                   |
| BF - Bullfinch                |                        | SL - Swallow                  |
| BG - Brent Goose              |                        | TC - Treecreeper              |
| BH - Black-headed Gull        |                        | WA - Water Rail               |
| CM - Common Gull              |                        |                               |
| D - Dunnock                   |                        |                               |
| E - Eider                     |                        |                               |
| F - Fulmar                    |                        |                               |
| GA - Gadwall                  |                        |                               |
| GB - Great Black-backed Gull  |                        |                               |
| GE - Green Sandpiper          |                        |                               |
| GJ - Greylag Goose            |                        |                               |
| GL - Grey Wagtail             |                        |                               |
| GV - Grey Plover              |                        |                               |
| HW - Great Egret              |                        |                               |
| K - Kestrel                   |                        |                               |
| KF - Kingfisher               |                        |                               |
| LB - Lesser Black-backed Gull |                        |                               |
| MA - Mallard                  |                        |                               |
| <b>Green listed species</b>   |                        |                               |
| B - Blackbird                 |                        |                               |
| BC - Blackcap                 |                        |                               |
| BL - Brambling                |                        |                               |
| BO - Barn Owl                 |                        |                               |
| BT - Blue Tit                 |                        |                               |
| BZ - Buzzard                  |                        |                               |
| C - Carrion Crow              |                        |                               |
| CA - Cormorant                |                        |                               |
| CC - Chiffchaff               |                        |                               |
| CD - Collared Dove            |                        |                               |
| CH - Chaffinch                |                        |                               |
| CO - Coot                     |                        |                               |
| CT - Coal Tit                 |                        |                               |
| CW - Cetti's Warbler          |                        |                               |
| ET - Little Egret             |                        |                               |
| FP - Feral Pigeon             |                        |                               |
| G - Green Woodpecker          |                        |                               |

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PROJECT TITLE  
**DOGGER BANK SOUTH - WINTERING BIRD SURVEY**

DRAWING TITLE  
**Figure 81. Transect 7, Visit 1 (October)**

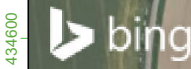
VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T7_V1	MP	CP

DRAWING NUMBER: **PeakEcology/DB2WBS2223/T7\_V1**

**peakecology**  
ECOLOGICAL CONSULTANTS

Arden House,  
Deepdale Business Park,  
Bakewell,  
Derbyshire,  
DE45 1GT.  
[www.peakecology.co.uk](http://www.peakecology.co.uk)

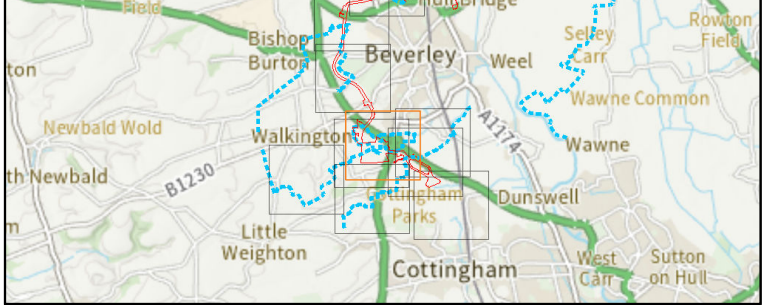
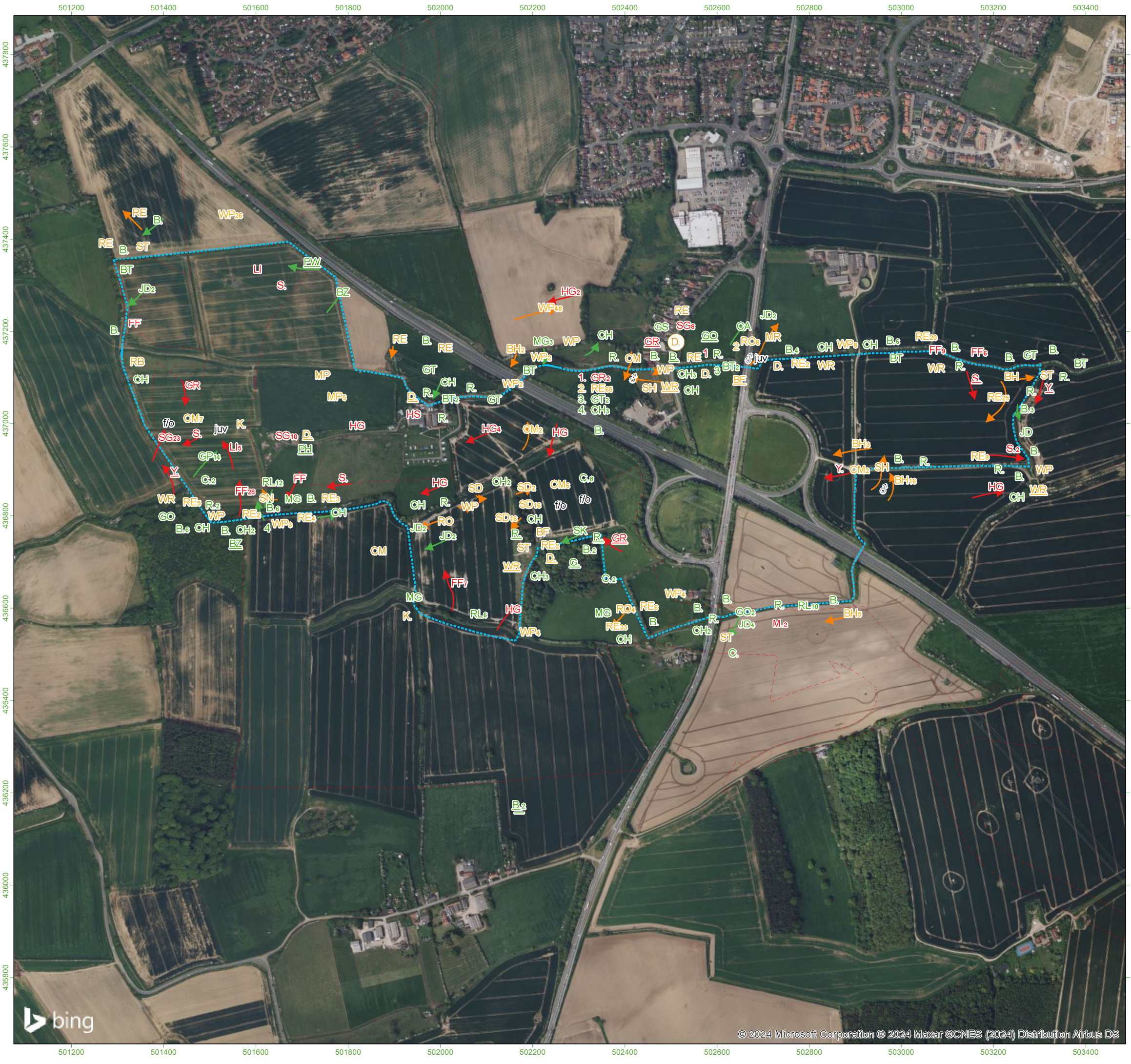
DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:8,000











**Survey Information**

- Onshore Development Area
- - - - - Transect route
- x Bird - alarm call
- x Bird sighting
- x Bird calling
- x Bird singing
- x Bird - aggressive encounter
- Red
- Amber
- Green
- Same bird
- - - - - In song at same time

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

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

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

- |                               |                        |                               |
|-------------------------------|------------------------|-------------------------------|
| <b>Red listed species</b>     | MH - Moorhen           | GC - Goldcrest                |
| CB - Corn Bunting             | MP - Meadow Pipit      | GG - Great Crested Grebe      |
| CU - Curlew                   | MR - Marsh Harrier     | GO - Goldfinch                |
| FF - Fieldfare                | MS - Mute Swan         | GP - Golden Plover            |
| GN - Goldeneye                | OC - Oystercatcher     | GS - Great Spotted Woodpecker |
| GR - Greenfinch               | PG - Pink-footed Goose | GT - Great Tit                |
| HG - Herring Gull             | RB - Reed Bunting      | H - Grey Heron                |
| HS - House Sparrow            | RE - Redwing           | J - Jay                       |
| L - Linnet                    | RK - Redshank          | JD - Jackdaw                  |
| LR - Lesser Redpoll           | RO - Rook              | JS - Jack Snipe               |
| M - Mistle Thrush             | SD - Stock Dove        | KT - Red Kite                 |
| MT - Marsh Tit                | SH - Sparrowhawk       | LG - Little Grebe             |
| P - Grey Partridge            | SN - Snipe             | LT - Long-tailed Tit          |
| RP - Ringed Plover            | SS - Sanderling        | MG - Magpie                   |
| RU - Ruff                     | ST - Song Thrush       | NH - Nuthatch                 |
| S - Skylark                   | SV - Shoveler          | PE - Peregrine                |
| SG - Starling                 | T - Teal               | PH - Pheasant                 |
| TS - Tree Sparrow             | TO - Tawny Owl         | PW - Pied Wagtail             |
| WK - Woodcock                 | WN - Wigeon            | R - Robin                     |
| Y - Yellowhammer              | WP - Wood Pigeon       | RH - Red-throated Diver       |
|                               | WR - Wren              | RL - Red-legged Partridge     |
|                               | WS - Whooper Swan      | SC - Stonechat                |
| <b>Amber listed species</b>   |                        | SK - Siskin                   |
| BF - Bullfinch                |                        | SL - Swallow                  |
| BG - Brent Goose              |                        | TC - Treecreeper              |
| BH - Black-headed Gull        |                        | WA - Water Rail               |
| CM - Common Gull              |                        |                               |
| D - Dunnock                   |                        |                               |
| E - Eider                     |                        |                               |
| F - Fulmar                    |                        |                               |
| GA - Gadwall                  |                        |                               |
| GB - Great Black-backed Gull  |                        |                               |
| GE - Green Sandpiper          |                        |                               |
| GJ - Greylag Goose            |                        |                               |
| GL - Grey Wagtail             |                        |                               |
| GV - Grey Plover              |                        |                               |
| HW - Great Egret              |                        |                               |
| K - Kestrel                   |                        |                               |
| KF - Kingfisher               |                        |                               |
| LB - Lesser Black-backed Gull |                        |                               |
| MA - Mallard                  |                        |                               |
| <b>Green listed species</b>   |                        |                               |
| B - Blackbird                 |                        |                               |
| BC - Blackcap                 |                        |                               |
| BL - Brambling                |                        |                               |
| BO - Barn Owl                 |                        |                               |
| BT - Blue Tit                 |                        |                               |
| BZ - Buzzard                  |                        |                               |
| C - Carrion Crow              |                        |                               |
| CA - Cormorant                |                        |                               |
| CC - Chiffchaff               |                        |                               |
| GJ - Greylag Goose            |                        |                               |
| CD - Collared Dove            |                        |                               |
| CH - Chaffinch                |                        |                               |
| CO - Coot                     |                        |                               |
| CT - Coal Tit                 |                        |                               |
| CW - Cetti's Warbler          |                        |                               |
| ET - Little Egret             |                        |                               |
| FP - Feral Pigeon             |                        |                               |
| G - Green Woodpecker          |                        |                               |



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PROJECT TITLE  
**DOGGER BANK SOUTH - WINTERING BIRD SURVEY**

DRAWING TITLE  
**Figure 83. Transect 7, Visit 3 (December)**

VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T7_V3	MP	CP

DRAWING NUMBER: **PeakEcology/DB2WBS2223/T7\_V3**

ECOLOGICAL CONSULTANTS

Arden House,  
 Deepdale Business Park,  
 Bakewell,  
 Derbyshire,  
 DE45 1GT.  
[www.peakecology.co.uk](http://www.peakecology.co.uk)

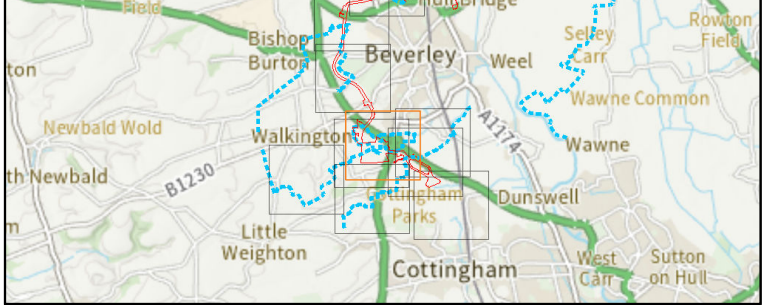
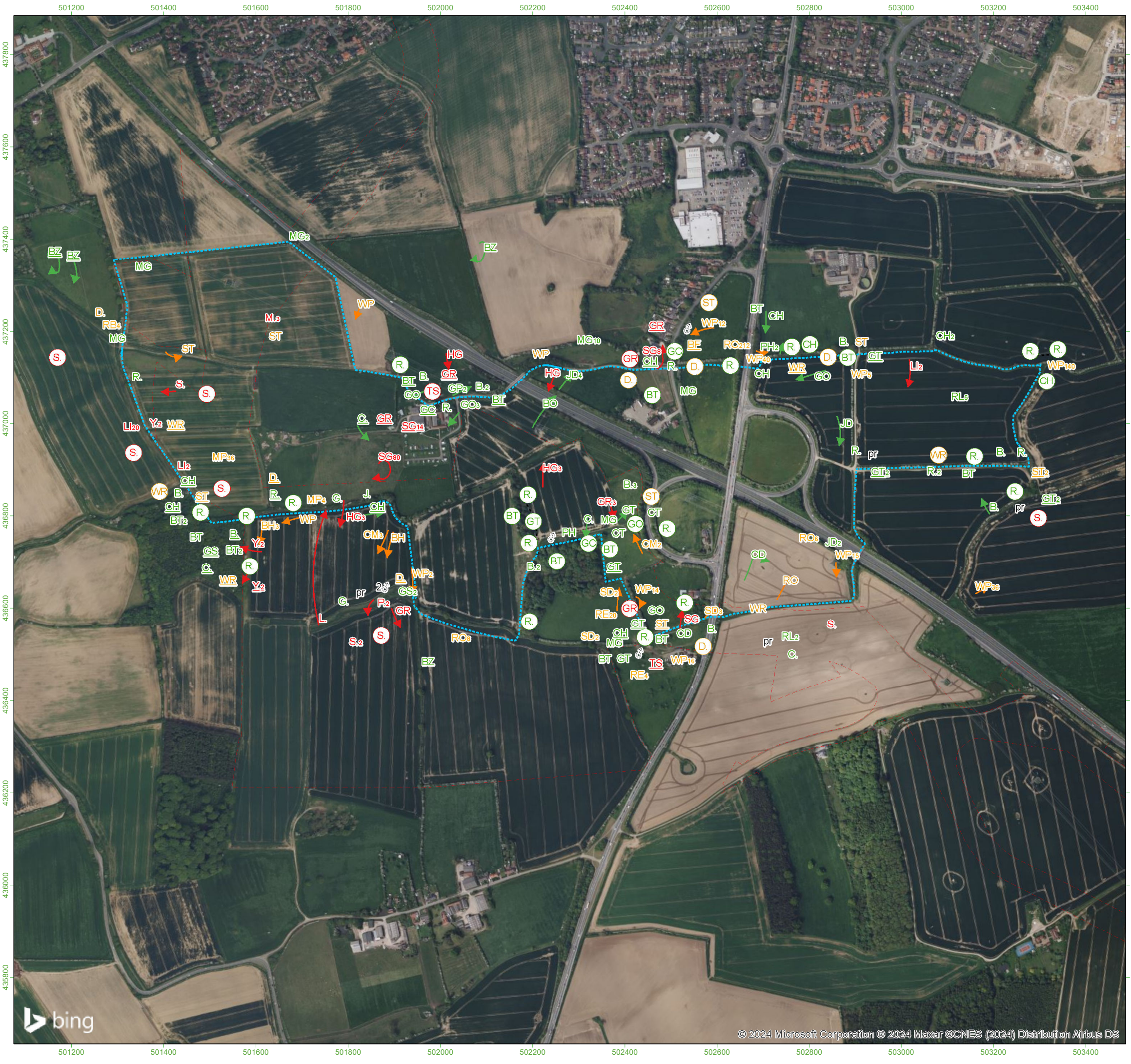
DATUM OSGB  
 PROJECTION BNG  
 PLOT SIZE A3  
 SCALE 1:8,000











**Survey Information**

- Onshore Development Area
- Transect route
- x Bird - alarm call
- x Bird sighting
- x Bird calling
- x Bird singing
- x Bird - aggressive encounter
- Red
- Amber
- Green
- Same bird
- In song at same time

**Additional Information**  
 Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:  
 Red Status = Red, Amber Status = Amber, Green/No Status = Green  
 Where more than one bird is observed then the size of the flock is in text alongside the record.

- |  |   |  |
|--|---|--|
| <p><b>Red listed species</b></p> <ul style="list-style-type: none"> <li>CB - Corn Bunting</li> <li>CU - Curlew</li> <li>FF - Fieldfare</li> <li>GN - Goldeneye</li> <li>GR - Greenfinch</li> <li>HG - Herring Gull</li> <li>HS - House Sparrow</li> <li>L - Lapwing</li> <li>LR - Lesser Redpoll</li> <li>MT - Marsh Tit</li> <li>P - Grey Partridge</li> <li>RP - Ringed Plover</li> <li>RU - Ruff</li> <li>S - Skylark</li> <li>SG - Starling</li> <li>TS - Tree Sparrow</li> <li>WK - Woodcock</li> <li>Y - Yellowhammer</li> </ul> | <p><b>Amber listed species</b></p> <ul style="list-style-type: none"> <li>BF - Bullfinch</li> <li>BG - Brent Goose</li> <li>BH - Black-headed Gull</li> <li>CM - Common Gull</li> <li>D - Dunnock</li> <li>E - Eider</li> <li>F - Fulmar</li> <li>GA - Gadwall</li> <li>GB - Great Black-backed Gull</li> <li>GE - Green Sandpiper</li> <li>GJ - Greylag Goose</li> <li>GL - Grey Wagtail</li> <li>GV - Grey Plover</li> <li>HW - Great Egret</li> <li>K - Kestrel</li> <li>KF - Kingfisher</li> <li>LB - Lesser Black-backed Gull</li> <li>MA - Mallard</li> </ul> | <p><b>Green listed species</b></p> <ul style="list-style-type: none"> <li>B - Blackbird</li> <li>BC - Blackcap</li> <li>BL - Brambling</li> <li>BO - Barn Owl</li> <li>BT - Blue Tit</li> <li>C - Carrion Crow</li> <li>CA - Cormorant</li> <li>CC - Chiffchaff</li> <li>CD - Collared Dove</li> <li>CH - Chaffinch</li> <li>CO - Coot</li> <li>CT - Coal Tit</li> <li>CW - Cetti's Warbler</li> <li>ET - Little Egret</li> <li>FP - Feral Pigeon</li> <li>G - Green Woodpecker</li> </ul> |
|--|---|--|

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PROJECT TITLE  
***DOGGER BANK SOUTH - WINTERING BIRD SURVEY***

DRAWING TITLE  
**Figure 85. Transect 7, Visit 5 (February)**

VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T7_V5	MP	CP

DRAWING NUMBER: **PeakEcology/DB2WBS2223/T7\_V5**

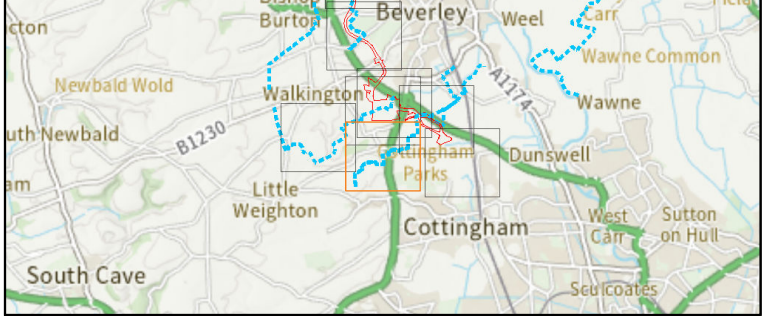
<p><b>peakecology</b> LIMITED  <small>ECOLOGICAL CONSULTANTS</small></p> <p>Arden House,      Deepdale Business Park,      Bakewell,      Derbyshire,      DE45 1GT.  <a href="http://www.peakecology.co.uk">www.peakecology.co.uk</a></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATUM</td> <td>OSGB</td> </tr> <tr> <td>PROJECTION</td> <td>BNG</td> </tr> <tr> <td>PLOT SIZE</td> <td>A3</td> </tr> <tr> <td>SCALE</td> <td>1:8,000</td> </tr> </table>	DATUM	OSGB	PROJECTION	BNG	PLOT SIZE	A3	SCALE	1:8,000
DATUM	OSGB								
PROJECTION	BNG								
PLOT SIZE	A3								
SCALE	1:8,000								











**Survey Information**

- Onshore Development Area
- Transect route
- x Bird - alarm call
- x Bird sighting
- x Bird calling
- (x) Bird singing
- (X) Bird - aggressive encounter
- Red
- Amber
- Green
- Same bird
- In song at same time

**Additional Information**  
 Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:  
 Red Status = Red, Amber Status = Amber, Green/No Status = Green  
 Where more than one bird is observed then the size of the flock is in text alongside the record.

- |                             |                        |                               |
|-----------------------------|------------------------|-------------------------------|
| <b>Red listed species</b>   | MH - Moorhen           | GC - Goldcrest                |
| CB - Corn Bunting           | MP - Meadow Pipit      | GG - Great Crested Grebe      |
| CU - Curlew                 | MR - Marsh Harrier     | GO - Goldfinch                |
| FF - Fieldfare              | MS - Mute Swan         | GP - Golden Plover            |
| GN - Goldeneye              | OC - Oystercatcher     | GS - Great Spotted Woodpecker |
| GR - Greenfinch             | PG - Pink-footed Goose | GT - Great Tit                |
| HG - Herring Gull           | RB - Reed Bunting      | H - Grey Heron                |
| HS - House Sparrow          | RE - Redwing           | J - Jay                       |
| L - Lapwing                 | RK - Redshank          | JD - Jackdaw                  |
| LI - Linnet                 | RO - Rook              | JS - Jack Snipe               |
| LR - Lesser Redpoll         | SD - Stock Dove        | KT - Red Kite                 |
| M - Mistle Thrush           | SH - Sparrowhawk       | LG - Little Grebe             |
| MT - Marsh Tit              | SN - Snipe             | LT - Long-tailed Tit          |
| P - Grey Partridge          | SS - Sanderling        | MG - Magpie                   |
| RP - Ringed Plover          | ST - Song Thrush       | NH - Nuthatch                 |
| RU - Ruff                   | SV - Shoveler          | PE - Peregrine                |
| S - Skylark                 | T - Teal               | PH - Pheasant                 |
| SG - Starling               | TO - Tawny Owl         | PW - Pied Wagtail             |
| TS - Tree Sparrow           | WN - Wigeon            | R - Robin                     |
| WK - Woodcock               | WP - Wood Pigeon       | RH - Red-throated Diver       |
| Y - Yellowhammer            | WR - Wren              | RL - Red-legged Partridge     |
|                             | WS - Whooper Swan      | SC - Stonechat                |
| <b>Amber listed species</b> |                        | SK - Siskin                   |
| BF - Bullfinch              |                        | SL - Swallow                  |
| BG - Brent Goose            |                        | TC - Treecreeper              |
| BH - Black-headed Gull      |                        | WA - Water Rail               |
| BL - Brambling              |                        |                               |
| BO - Barn Owl               |                        |                               |
| BT - Blue Tit               |                        |                               |
| BZ - Buzzard                |                        |                               |
| C - Carrion Crow            |                        |                               |
| CA - Cormorant              |                        |                               |
| CC - Chiffchaff             |                        |                               |
| CD - Collared Dove          |                        |                               |
| CH - Chaffinch              |                        |                               |
| CO - Coot                   |                        |                               |
| CT - Coal Tit               |                        |                               |
| CW - Cetti's Warbler        |                        |                               |
| ET - Little Egret           |                        |                               |
| FP - Feral Pigeon           |                        |                               |
| G - Green Woodpecker        |                        |                               |

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PROJECT TITLE  
**DOGGER BANK SOUTH - WINTERING BIRD SURVEY**

DRAWING TITLE  
**Figure 87. Transect 8, Visit 1 (October)**

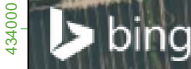
VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T8_V1	MP	CP

DRAWING NUMBER: **PeakEcology/DB2WBS2223/T8\_V1**

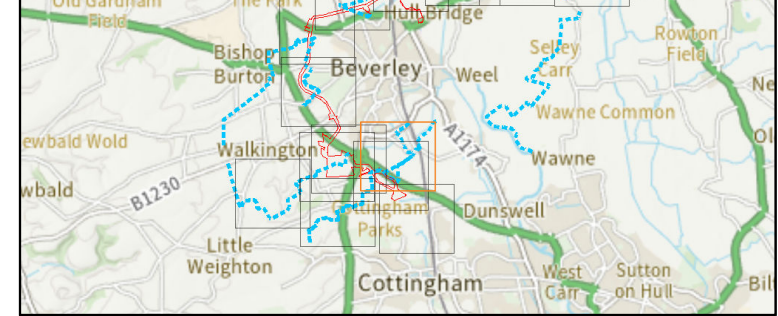
ECOLOGICAL CONSULTANTS

Arden House,  
 Deepdale Business Park,  
 Bakewell,  
 Derbyshire,  
 DE45 1GT.  
[www.peakecology.co.uk](http://www.peakecology.co.uk)

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:8,000







**Survey Information**

- Onshore Development Area
- Transect route
- x Bird - alarm call
- x Bird sighting
- x Bird calling
- (x) Bird singing
- (X) Bird - aggressive encounter
- Red
- Amber
- Green
- Same bird
- ..... In song at same time

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

Red Status = Red, Amber Status = Amber, Green/No Status = Green  
 Where more than one bird is observed then the size of the flock is in text alongside the record.

- |                               |                        |                               |
|-------------------------------|------------------------|-------------------------------|
| <b>Red listed species</b>     | MH - Moorhen           | GC - Goldcrest                |
| CB - Corn Bunting             | MP - Meadow Pipit      | GG - Great Crested Grebe      |
| CU - Curlew                   | MR - Marsh Harrier     | GO - Goldfinch                |
| FF - Fieldfare                | MS - Mute Swan         | GP - Golden Plover            |
| GN - Goldeneye                | OC - Oystercatcher     | GS - Great Spotted Woodpecker |
| GR - Greenfinch               | PG - Pink-footed Goose | GT - Great Tit                |
| HG - Herring Gull             | RB - Reed Bunting      | H - Grey Heron                |
| HS - House Sparrow            | RE - Redwing           | J - Jay                       |
| L - Lapwing                   | RK - Redshank          | JD - Jackdaw                  |
| LI - Linnet                   | RO - Rook              | JS - Jack Snipe               |
| LR - Lesser Redpoll           | SD - Stock Dove        | KT - Red Kite                 |
| M - Mistle Thrush             | SH - Sparrowhawk       | LG - Little Grebe             |
| MT - Marsh Tit                | SN - Snipe             | LT - Long-tailed Tit          |
| P - Grey Partridge            | SS - Sanderling        | MG - Magpie                   |
| RP - Ringed Plover            | ST - Song Thrush       | NH - Nuthatch                 |
| RU - Ruff                     | SV - Shoveler          | PE - Peregrine                |
| S - Skylark                   | T - Teal               | PH - Pheasant                 |
| SG - Starling                 | TO - Tawny Owl         | PW - Pied Wagtail             |
| TS - Tree Sparrow             | WN - Wigeon            | R - Robin                     |
| WK - Woodcock                 | WP - Wood Pigeon       | RH - Red-throated Diver       |
| Y - Yellowhammer              | WR - Wren              | RL - Red-legged Partridge     |
|                               | WS - Whooper Swan      | SC - Stonechat                |
| <b>Amber listed species</b>   |                        | SK - Siskin                   |
| BF - Bullfinch                |                        | SL - Swallow                  |
| BG - Brent Goose              |                        | TC - Treecreeper              |
| BH - Black-headed Gull        |                        | WA - Water Rail               |
| CM - Common Gull              |                        |                               |
| D - Dunnock                   |                        |                               |
| E - Eider                     |                        |                               |
| F - Fulmar                    |                        |                               |
| GA - Gadwall                  |                        |                               |
| GB - Great Black-backed Gull  |                        |                               |
| GE - Green Sandpiper          |                        |                               |
| GJ - Greylag Goose            |                        |                               |
| GL - Grey Wagtail             |                        |                               |
| GV - Grey Plover              |                        |                               |
| HW - Great Egret              |                        |                               |
| K - Kestrel                   |                        |                               |
| KF - Kingfisher               |                        |                               |
| LB - Lesser Black-backed Gull |                        |                               |
| MA - Mallard                  |                        |                               |
| <b>Green listed species</b>   |                        |                               |
| B - Blackbird                 |                        |                               |
| BC - Blackcap                 |                        |                               |
| BL - Brambling                |                        |                               |
| BO - Barn Owl                 |                        |                               |
| BT - Blue Tit                 |                        |                               |
| BZ - Buzzard                  |                        |                               |
| C - Carrion Crow              |                        |                               |
| CA - Cormorant                |                        |                               |
| CC - Chiffchaff               |                        |                               |
| GJ - Greylag Goose            |                        |                               |
| CH - Chaffinch                |                        |                               |
| CO - Coot                     |                        |                               |
| CT - Coal Tit                 |                        |                               |
| CW - Cetti's Warbler          |                        |                               |
| ET - Little Egret             |                        |                               |
| FP - Feral Pigeon             |                        |                               |
| G - Green Woodpecker          |                        |                               |

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PROJECT TITLE  
**DOGGER BANK SOUTH - WINTERING BIRD SURVEY**

DRAWING TITLE  
**Figure 88. Transect 8, Visit 1 (October)**

VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T8_V1	MP	CP

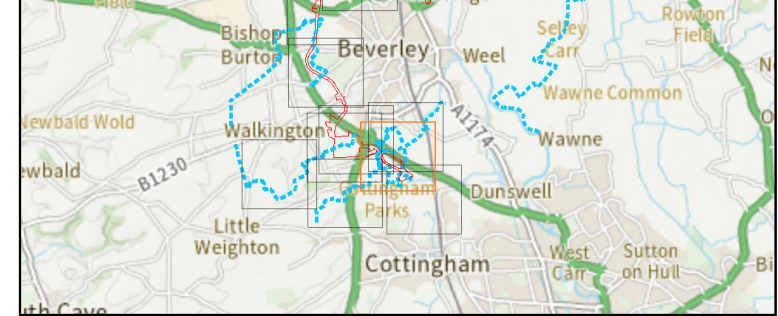
DRAWING NUMBER: **PeakEcology/DB2WBS2223/T8\_V1**

ECOLOGICAL CONSULTANTS

Arden House,  
 Deepdale Business Park,  
 Bakewell,  
 Derbyshire,  
 DE45 1GT.  
[www.peakecology.co.uk](http://www.peakecology.co.uk)

DATUM	OSGB
PROJECTION	BNG
PLOT SIZE	A3
SCALE	1:8,000





**Survey Information**

- Onshore Development Area
- Transect route
- x Bird - alarm call
- x Bird sighting
- x Bird calling
- x Bird singing
- x Bird - aggressive encounter
- Red
- Amber
- Green
- Same bird
- In song at same time

**Additional Information**  
 Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:  
 Red Status = Red, Amber Status = Amber, Green/No Status = Green  
 Where more than one bird is observed then the size of the flock is in text alongside the record.

- |  |   |  |
|--|---|--|
| <p><b>Red listed species</b></p> <ul style="list-style-type: none"> <li>CB - Corn Bunting</li> <li>CU - Curlew</li> <li>FF - Fieldfare</li> <li>GN - Goldeneye</li> <li>GR - Greenfinch</li> <li>HG - Herring Gull</li> <li>HS - House Sparrow</li> <li>L - Lapwing</li> <li>LI - Linnet</li> <li>LR - Lesser Redpoll</li> <li>M - Mistle Thrush</li> <li>MT - Marsh Tit</li> <li>P - Grey Partridge</li> <li>RP - Ringed Plover</li> <li>RU - Ruff</li> <li>S - Skylark</li> <li>SG - Starling</li> <li>TS - Tree Sparrow</li> <li>WK - Woodcock</li> <li>Y - Yellowhammer</li> </ul> | <p><b>Amber listed species</b></p> <ul style="list-style-type: none"> <li>BF - Bullfinch</li> <li>BG - Brent Goose</li> <li>BH - Black-headed Gull</li> <li>CM - Common Gull</li> <li>D - Dunnock</li> <li>E - Eider</li> <li>F - Fulmar</li> <li>GA - Gadwall</li> <li>GB - Great Black-backed Gull</li> <li>GE - Green Sandpiper</li> <li>GJ - Greylag Goose</li> <li>GL - Grey Wagtail</li> <li>GV - Grey Plover</li> <li>HW - Great Egret</li> <li>K - Kestrel</li> <li>KF - Kingfisher</li> <li>LB - Lesser Black-backed Gull</li> <li>MA - Mallard</li> </ul>   | <p><b>Green listed species</b></p> <ul style="list-style-type: none"> <li>B - Blackbird</li> <li>BC - Blackcap</li> <li>BL - Brambling</li> <li>BO - Barn Owl</li> <li>BT - Blue Tit</li> <li>BZ - Buzzard</li> <li>C - Carrion Crow</li> <li>CA - Cormorant</li> <li>CC - Chiffchaff</li> <li>CD - Collared Dove</li> <li>CH - Chaffinch</li> <li>CO - Coot</li> <li>CT - Coal Tit</li> <li>CW - Cetti's Warbler</li> <li>ET - Little Egret</li> <li>FP - Feral Pigeon</li> <li>G - Green Woodpecker</li> </ul> |
| <p>MH - Moorhen</p> <p>MP - Meadow Pipit</p> <p>MR - Marsh Harrier</p> <p>MS - Mute Swan</p> <p>OC - Oystercatcher</p> <p>PG - Pink-footed Goose</p> <p>RE - Redwing</p> <p>RK - Redshank</p> <p>RO - Rook</p> <p>SD - Stock Dove</p> <p>SH - Sparrowhawk</p> <p>SN - Snipe</p> <p>SS - Sanderling</p> <p>ST - Song Thrush</p> <p>SV - Shoveler</p> <p>T - Teal</p> <p>TO - Tawny Owl</p> <p>WN - Wigeon</p> <p>WP - Wood Pigeon</p> <p>WR - Wren</p> <p>WS - Whooper Swan</p>   | <p>GC - Goldcrest</p> <p>GG - Great Crested Grebe</p> <p>GO - Golden Plover</p> <p>GP - Golden Plover</p> <p>GS - Great Spotted Woodpecker</p> <p>GT - Great Tit</p> <p>H - Grey Heron</p> <p>J - Jay</p> <p>JD - Jackdaw</p> <p>JS - Jack Snipe</p> <p>KT - Red Kite</p> <p>LG - Little Grebe</p> <p>LT - Long-tailed Tit</p> <p>MG - Magpie</p> <p>NH - Nuthatch</p> <p>PE - Peregrine</p> <p>PH - Pheasant</p> <p>PW - Pied Wagtail</p> <p>R - Robin</p> <p>RH - Red-throated Diver</p> <p>RL - Red-legged Partridge</p> <p>SC - Stonechat</p> <p>SK - Siskin</p> <p>SL - Swallow</p> <p>TC - Treecreeper</p> <p>WA - Water Rail</p> |  |



PROJECT TITLE  
**DOGGER BANK SOUTH - WINTERING BIRD SURVEY**

DRAWING TITLE  
**Figure 89. Transect 8, Visit 2 (November)**

VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T8_V2	MP	CP

DRAWING NUMBER: **PeakEcology/DB2WBS2223/T8\_V2**

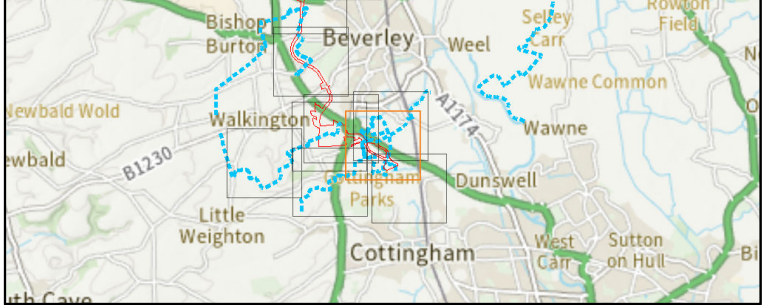
<p><b>peakecology</b> LIMITED      ECOLOGICAL CONSULTANTS</p>	<p>Arden House,        Deepdale Business Park,        Bakewell,        Derbyshire,        DE45 1GT.  <a href="http://www.peakecology.co.uk">www.peakecology.co.uk</a></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATUM</td> <td>OSGB</td> </tr> <tr> <td>PROJECTION</td> <td>BNG</td> </tr> <tr> <td>PLOT SIZE</td> <td>A3</td> </tr> <tr> <td>SCALE</td> <td>1:8,000</td> </tr> </table>	DATUM	OSGB	PROJECTION	BNG	PLOT SIZE	A3	SCALE	1:8,000
DATUM	OSGB									
PROJECTION	BNG									
PLOT SIZE	A3									
SCALE	1:8,000									











**Survey Information**

Onshore Development Area
  Transect route

x Bird - alarm call
 → Red

x Bird sighting
 → Amber

x Bird calling
 → Green

x Bird singing
  Same bird

x Bird - aggressive encounter
  In song at same time

**Additional Information**

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

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

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

<p><b>Red listed species</b></p> <ul style="list-style-type: none"> <li>CB - Corn Bunting</li> <li>CU - Curlew</li> <li>FF - Fieldfare</li> <li>GN - Goldeneye</li> <li>GR - Greenfinch</li> <li>HG - Herring Gull</li> <li>HS - House Sparrow</li> <li>L - Lapwing</li> <li>LI - Linnet</li> <li>LR - Lesser Redpoll</li> <li>M - Mistle Thrush</li> <li>MT - Marsh Tit</li> <li>P - Grey Partridge</li> <li>RP - Ringed Plover</li> <li>RU - Ruff</li> <li>S - Skylark</li> <li>SG - Starling</li> <li>TS - Tree Sparrow</li> <li>WK - Woodcock</li> <li>Y - Yellowhammer</li> </ul>	<ul style="list-style-type: none"> <li>MH - Moorhen</li> <li>MP - Meadow Pipit</li> <li>MR - Marsh Harrier</li> <li>MS - Mute Swan</li> <li>OC - Oystercatcher</li> <li>PG - Pink-footed Goose</li> <li>RB - Reed Bunting</li> <li>RE - Redwing</li> <li>RK - Redshank</li> <li>RO - Rook</li> <li>SD - Stock Dove</li> <li>SH - Sparrowhawk</li> <li>SN - Snipe</li> <li>SS - Sanderling</li> <li>ST - Song Thrush</li> <li>SV - Shoveler</li> <li>T - Teal</li> <li>TO - Tawny Owl</li> <li>WN - Wigeon</li> <li>WP - Wood Pigeon</li> <li>WR - Wren</li> <li>WS - Whooper Swan</li> </ul>	<ul style="list-style-type: none"> <li>GC - Goldcrest</li> <li>GG - Great Crested Grebe</li> <li>GO - Goldfinch</li> <li>GP - Golden Plover</li> <li>GS - Great Spotted Woodpecker</li> <li>GT - Great Tit</li> <li>H - Grey Heron</li> <li>J - Jay</li> <li>JD - Jackdaw</li> <li>JS - Jack Snipe</li> <li>KT - Red Kite</li> <li>LG - Little Grebe</li> <li>LT - Long-tailed Tit</li> <li>MG - Magpie</li> <li>NH - Nuthatch</li> <li>PE - Peregrine</li> <li>PH - Pheasant</li> <li>PW - Pied Wagtail</li> <li>R - Robin</li> <li>RH - Red-throated Diver</li> <li>RL - Red-legged Partridge</li> <li>SC - Stonechat</li> <li>SK - Skink</li> <li>SL - Swallow</li> <li>TC - Treecreeper</li> <li>WA - Water Rail</li> </ul>
<p><b>Amber listed species</b></p> <ul style="list-style-type: none"> <li>BF - Bullfinch</li> <li>BG - Brent Goose</li> <li>BH - Black-headed Gull</li> <li>CM - Common Gull</li> <li>D - Dunnock</li> <li>E - Eider</li> <li>F - Fulmar</li> <li>GA - Gadwall</li> <li>GB - Great Black-backed Gull</li> <li>GE - Green Sandpiper</li> <li>GJ - Greylag Goose</li> <li>GL - Grey Wagtail</li> <li>GV - Grey Plover</li> <li>HW - Great Egret</li> <li>K - Kestrel</li> <li>KF - Kingfisher</li> <li>LB - Lesser Black-backed Gull</li> <li>MA - Mallard</li> </ul>	<p><b>Green listed species</b></p> <ul style="list-style-type: none"> <li>B - Blackbird</li> <li>BC - Blackcap</li> <li>BL - Brambling</li> <li>BO - Barn Owl</li> <li>BT - Blue Tit</li> <li>BZ - Buzzard</li> <li>C - Carrion Crow</li> <li>CA - Cormorant</li> <li>CC - Chiffchaff</li> <li>CD - Collared Dove</li> <li>CH - Chaffinch</li> <li>CO - Coot</li> <li>CT - Coal Tit</li> <li>CW - Cetti's Warbler</li> <li>ET - Little Egret</li> <li>FP - Feral Pigeon</li> <li>G - Green Woodpecker</li> </ul>	

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**PROJECT TITLE**  
***DOGGER BANK SOUTH - WINTERING BIRD SURVEY***

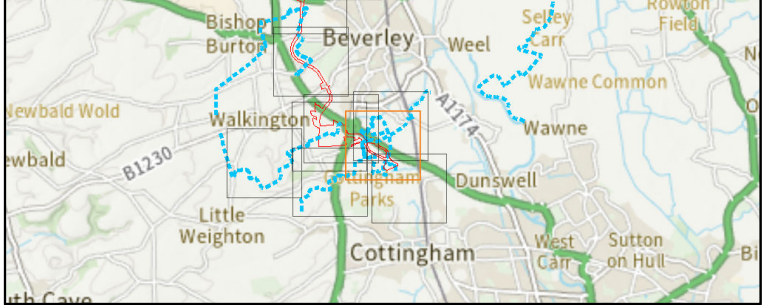
**DRAWING TITLE**  
**Figure 91. Transect 8, Visit 4 (January)**

VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T8_V4	MP	CP

**DRAWING NUMBER:** PeakEcology/DB2WBS2223/T8\_V4

<p><b>peakecology</b> LIMITED ECOLOGICAL CONSULTANTS</p> <p>Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. www.peakecology.co.uk</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATUM</td> <td>OSGB</td> </tr> <tr> <td>PROJECTION</td> <td>BNG</td> </tr> <tr> <td>PLOT SIZE</td> <td>A3</td> </tr> <tr> <td>SCALE</td> <td>1:8,000</td> </tr> </table>	DATUM	OSGB	PROJECTION	BNG	PLOT SIZE	A3	SCALE	1:8,000
DATUM	OSGB								
PROJECTION	BNG								
PLOT SIZE	A3								
SCALE	1:8,000								





**Survey Information**

- Onshore Development Area
- Transect route
- x Bird - alarm call
- x Bird sighting
- x Bird calling
- (x) Bird singing
- (X) Bird - aggressive encounter
- Red
- Amber
- Green
- Same bird
- ..... In song at same time

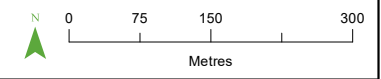
**Additional Information**  
 Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:

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

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

- |                               |                             |                               |
|-------------------------------|-----------------------------|-------------------------------|
| <b>Red listed species</b>     | MH - Moorhen                | GC - Goldcrest                |
| CB - Corn Bunting             | MP - Meadow Pipit           | GG - Great Crested Grebe      |
| CU - Curlew                   | MR - Marsh Harrier          | GO - Goldfinch                |
| FF - Fieldfare                | MS - Mute Swan              | GP - Golden Plover            |
| GN - Goldeneye                | OC - Oystercatcher          | GS - Great Spotted Woodpecker |
| GR - Greenfinch               | PG - Pink-footed Goose      | GT - Great Tit                |
| HG - Herring Gull             | RE - Redwing                | H - Grey Heron                |
| HS - House Sparrow            | RK - Redshank               | J - Jay                       |
| L - Lapwing                   | RO - Rook                   | JD - Jackdaw                  |
| LI - Linnet                   | SD - Stock Dove             | JS - Jack Snipe               |
| LR - Lesser Redpoll           | SH - Sparrowhawk            | KT - Red Kite                 |
| M - Mistle Thrush             | SN - Snipe                  | LG - Little Grebe             |
| MT - Marsh Tit                | SS - Sanderling             | LT - Long-tailed Tit          |
| P - Grey Partridge            | ST - Song Thrush            | MG - Magpie                   |
| RP - Ringed Plover            | SV - Shoveler               | NH - Nuthatch                 |
| RU - Ruff                     | T - Teal                    | PE - Peregrine                |
| S - Skylark                   | TO - Tawny Owl              | PH - Pheasant                 |
| SG - Starling                 | WN - Wigeon                 | PW - Pied Wagtail             |
| TS - Tree Sparrow             | WP - Wood Pigeon            | R - Robin                     |
| WK - Woodcock                 | WR - Wren                   | RH - Red-throated Diver       |
| Y - Yellowhammer              | WS - Whooper Swan           | RL - Red-legged Partridge     |
|                               |                             | SC - Stonechat                |
|                               |                             | SK - Skink                    |
|                               |                             | SL - Swallow                  |
|                               |                             | TC - Treecreeper              |
|                               |                             | WA - Water Rail               |
| <b>Amber listed species</b>   | <b>Green listed species</b> |                               |
| BF - Bullfinch                | B - Blackbird               |                               |
| BG - Brent Goose              | BC - Blackcap               |                               |
| BH - Black-headed Gull        | BL - Brambling              |                               |
| CM - Common Gull              | BO - Barn Owl               |                               |
| D - Dunnock                   | BT - Blue Tit               |                               |
| E - Eider                     | BZ - Buzzard                |                               |
| F - Fulmar                    | C - Carrion Crow            |                               |
| GA - Gadwall                  | CA - Cormorant              |                               |
| GB - Great Black-backed Gull  | CC - Chiffchaff             |                               |
| GE - Green Sandpiper          | CD - Collared Dove          |                               |
| GJ - Greylag Goose            | CH - Chaffinch              |                               |
| GL - Grey Wagtail             | CO - Coot                   |                               |
| GV - Grey Plover              | CT - Coal Tit               |                               |
| HW - Great Egret              | CW - Cetti's Warbler        |                               |
| K - Kestrel                   | ET - Little Egret           |                               |
| KF - Kingfisher               | FP - Feral Pigeon           |                               |
| LB - Lesser Black-backed Gull | G - Green Woodpecker        |                               |
| MA - Mallard                  |                             |                               |

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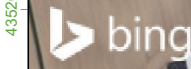
PROJECT TITLE  
**DOGGER BANK SOUTH - WINTERING BIRD SURVEY**

DRAWING TITLE  
**Figure 92. Transect 8, Visit 5 (February)**

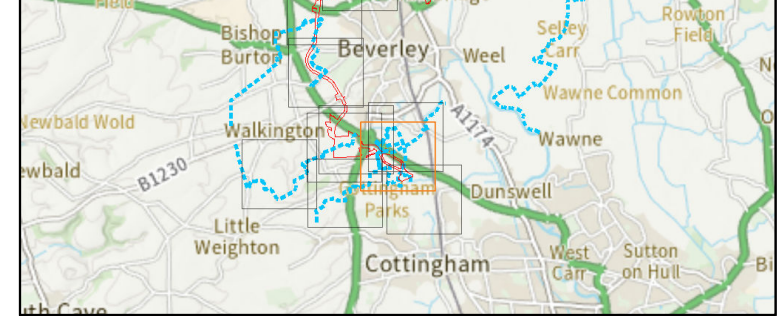
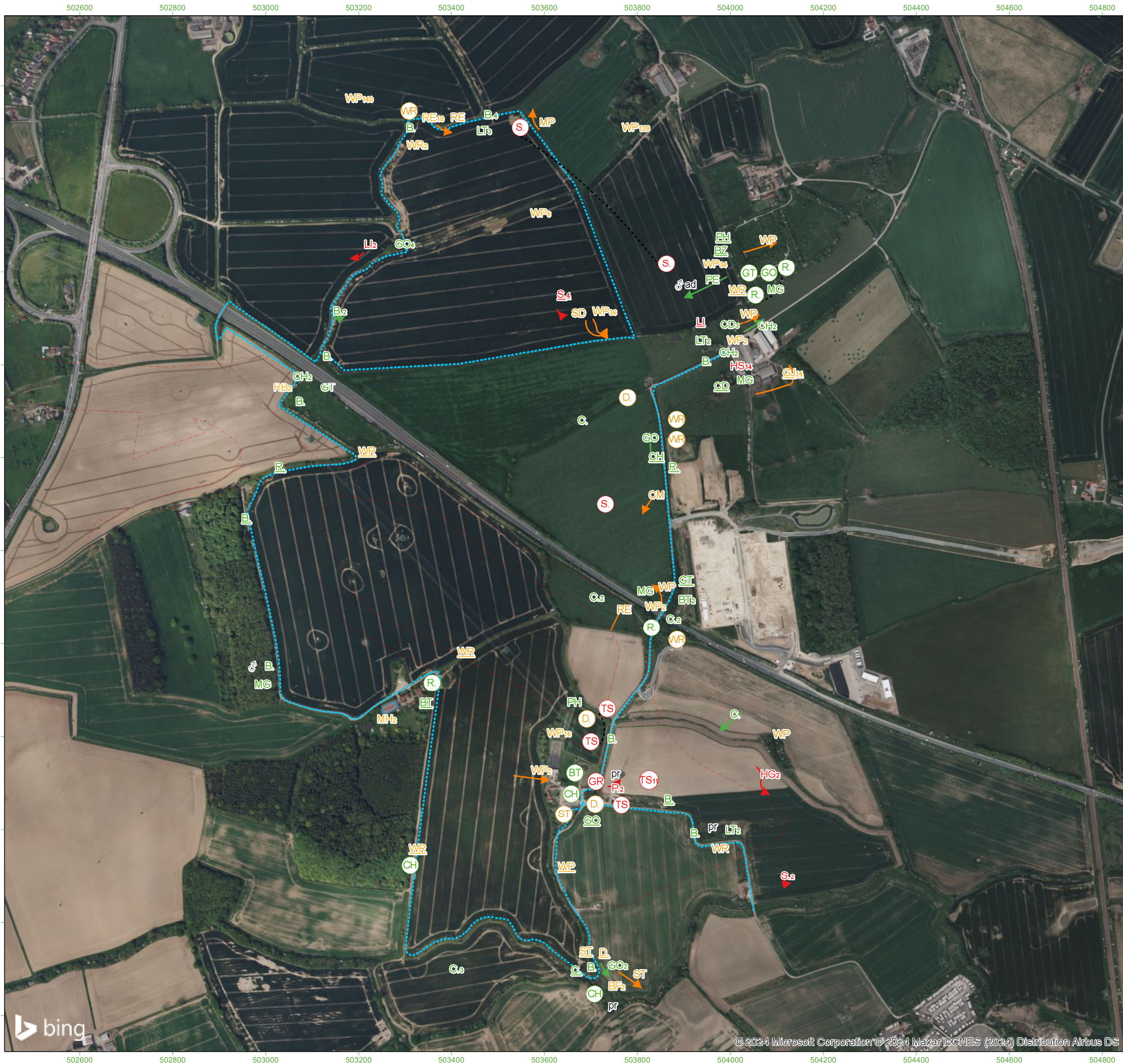
VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T8_V5	MP	CP

DRAWING NUMBER: **PeakEcology/DB2WBS2223/T8\_V5**

	Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. <a href="http://www.peakecology.co.uk">www.peakecology.co.uk</a>	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:8,000







**Survey Information**

<span style="border: 1px dashed red; padding: 2px;"> </span>	Onshore Development Area	<span style="color: blue; font-weight: bold;">⋯</span>	Transect route
x	Bird - alarm call	<span style="color: red; font-weight: bold;">➔</span>	Red
x	Bird sighting	<span style="color: orange; font-weight: bold;">➔</span>	Amber
x	Bird calling	<span style="color: green; font-weight: bold;">➔</span>	Green
(x)	Bird singing	—	Same bird
(X)	Bird - aggressive encounter	⋯	In song at same time

**Additional Information**  
 Letter codes within each circle refer to the corresponding BTO reference code and coloured according to their status:  
 Red Status = Red, Amber Status = Amber, Green/No Status = Green

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

<b>Red listed species</b>	MH - Moorhen	GC - Goldcrest
CB - Corn Bunting	MP - Meadow Pipit	GG - Great Crested Grebe
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FF - Fieldfare	MS - Mute Swan	GP - Golden Plover
GN - Goldeneye	OC - Oystercatcher	GS - Great Spotted Woodpecker
GR - Greenfinch	PG - Pink-footed Goose	GT - Great Tit
HG - Herring Gull	RE - Redwing	H - Grey Heron
HS - House Sparrow	RK - Redshank	J - Jay
L - Lapwing	RO - Rook	JD - Jackdaw
LR - Lesser Redpoll	SD - Stock Dove	JS - Jack Snipe
M - Mistle Thrush	SH - Sparrowhawk	KT - Red Kite
MT - Marsh Tit	SN - Snipe	LG - Little Grebe
P - Grey Partridge	SS - Sanderling	LT - Long-tailed Tit
RP - Ringed Plover	ST - Song Thrush	MG - Magpie
RU - Ruff	SV - Shoveler	NH - Nuthatch
S - Skylark	T - Teal	PE - Peregrine
SG - Starling	TO - Tawny Owl	PH - Pheasant
TS - Tree Sparrow	WN - Wigeon	PW - Pied Wagtail
WK - Woodcock	WP - Wood Pigeon	R - Robin
Y - Yellowhammer	WR - Wren	RH - Red-throated Diver
	WS - Whooper Swan	RL - Red-legged Partridge
		SC - Stonechat
		SK - Siskin
		SL - Swallow
		TC - Treecreeper
		WA - Water Rail

**Amber listed species**

BF - Bullfinch	BC - Blackcap
BG - Brent Goose	BL - Brambling
BH - Black-headed Gull	BO - Barn Owl
CM - Common Gull	BT - Blue Tit
D - Dunnock	BZ - Buzzard
E - Eider	C - Carrion Crow
F - Fulmar	CA - Cormorant
GA - Gadwall	CC - Chiffchaff
GB - Great Black-backed Gull	CD - Collared Dove
GE - Green Sandpiper	CH - Chaffinch
GJ - Greylag Goose	CO - Coot
GL - Grey Wagtail	CT - Coal Tit
GV - Grey Plover	CW - Cetti's Warbler
HW - Great Egret	ET - Little Egret
K - Kestrel	FP - Feral Pigeon
KF - Kingfisher	G - Green Woodpecker
LB - Lesser Black-backed Gull	
MA - Mallard	

**Green listed species**

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0 75 150 300  
Metres

**PROJECT TITLE**  
**DOGGER BANK SOUTH - WINTERING BIRD SURVEY**

**DRAWING TITLE**  
**Figure 93. Transect 8, Visit 6 (March)**

VER	DATE	REMARKS	Drawn	Checked
3.0	04/04/24	T8_V6	MP	CP

**DRAWING NUMBER:** PeakEcology/DB2WBS2223/T8\_V6

<b>peakecology</b> ECOLOGICAL CONSULTANTS	Arden House, Deepdale Business Park, Bakewell, Derbyshire, DE45 1GT. <a href="http://www.peakecology.co.uk">www.peakecology.co.uk</a>	DATUM	OSGB
		PROJECTION	BNG
		PLOT SIZE	A3
		SCALE	1:8,000





## **APPENDIX F Overwintering Bird Survey Report (2022)**





Appendix 18-5 Over-wintering Bird Survey  
Report  
Dogger Bank South Offshore Wind Farms



## ISSUE RECORD

Client name	Royal HaskoningDHV Ltd
Project name	Dogger Bank South Offshore Wind Farms
Project number	HASK06
Status	DRAFT
Report title	Appendix 18-5 Over-wintering Bird Survey Report
Issue number	1
Date	27/05/2022
Written by	Chloe Pritchard, MCIEEM Principal Ecologist
Checked by	Jonathan Brickland MCIEEM Director
Approved by	Jessica Eades BSc (Hons), MCIEEM Technical Director

The information and advice contained in this report has been prepared and provided in accordance with the Chartered Institute of Ecology and Environmental Management's Code of Professional Conduct. We confirm that the opinions expressed are our true and professional bona fide opinions.

Peak Ecology is accredited under ISO9001 and as such this report follows the styles and formatting template set out within our Quality Management Form.

ISO9001	QMF 32	Issue 1	Reviewed 04/03/2016
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[www.peakecology.co.uk](http://www.peakecology.co.uk)



## EXECUTIVE SUMMARY

### Overview

A suite of over-wintering OWB bird surveys were undertaken across 10 transects and 11 vantage points in relation to the Onshore Search Area (correct October 2021). The proposed transect and vantage point locations were identified by Royal HaskoningDHV via a desk-based exercise. The proposed locations were based on likely concentrations of birds and general areas where the onshore export cables and/or onshore substations may be sited; whilst noting that the location of this infrastructure was not known at the time of the OWB surveys. No landowner access permission was sought for this stage, therefore all transects and vantage points were accessed via publicly accessible means, i.e. Public Rights of Way (PRoW).

Since the commencement/completion of the 2021/2022 OWB survey effort, further refinements to the site selection and route planning workstreams have been undertaken which has resulted in the onshore survey areas being refined. The 2021/22 OWB transect/vantage point surveys are now outside of these areas and whilst they provide useful baseline data additional surveys are required to provide a more accurate representation of the site's use by OWB.

The results varied across the individual transects and vantage points, with high levels of activity and species diversity associated with transects located near to/on designated sites for birds (such as Hornsea Mere and Tophill Low), which reflected their protected status. In addition, a number of other transects had high species diversity equivalent to a Regional importance level. The vantage points returned lower species diversity and concentrations of records.

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

### Implications and Recommendations

The survey results highlighted a number of transects which are important of birds and should be avoided, if possible, namely Transect (T)1, T3 (Hornsea Mere), T9 (Leven Canal) and T10 (Tophill Low).

Recommendations include avoiding areas which were highlighted to support high numbers of QWB during the 2021/22 OWB survey, in particular wetland habitats which are particularly important for wintering birds. Any sections of hedgerows which would need to be removed should be-replanted. Measures to reduce disturbance should be used in areas used by foraging or roosting birds.



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## **1 INTRODUCTION**

### **1.1 Scope of Report**

This report has been prepared by Peak Ecology Ltd on behalf of Royal HaskoningDHV Ltd. This document presents the results of the OWB surveys at Creyke Beck, East Yorkshire, associated with the Dogger Bank South Offshore Wind Farms (the Projects). A further two onshore survey areas were also subject to a suite of OBW surveys in 2021/22 winter period, the results of which are reported separately.

The purpose of this report is to:

- Provide the results of the 2021/22 over-wintering bird survey;
- Identify key areas of bird activity in the vicinity of Creyke Beck Onshore Search Area;
- Identify potential impacts to bird assemblages; and
- Provide mitigation recommendations where necessary.

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

### **1.2 Site Description**

The site comprises ten transect routes and 11 vantage points, approximately located between Kingston upon Hull and Bridlington, in East Yorkshire. The individual survey areas are described in more detail in the results section. The survey area locations are illustrated below.



**Figure 1: Location Plan\***



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### 1.3 Planning Context and Legislation

As the Projects are offshore generating stations each exceeding 100MW installed capacity they are classified as Nationally Significant Infrastructure Projects (NSIPs). As such a Development Consent Order (DCO) is required for their development under the Planning Act 2008. In order to support the DCO application an Environmental Impact Assessment (EIA) is required within which all potential impacts on biodiversity will need to be taken into consideration.

In practice, this means that potential impacts on designated sites, priority species and habitats such as those listed on the UK Post-2010 Biodiversity Framework (formerly the UK Biodiversity Action Plan) and species that receive legal direct protection (typically via the Conservation of Habitats and Species Regulations 2017 (as amended) and/or the Wildlife and Countryside Act 1981 (as amended)) are all material planning considerations.

In relation to European Protected Species, the local authorities and Natural England require sufficient information about likely impacts and mitigation or compensatory measures to satisfy the three Habitats Directive tests, the most relevant to ecological reports being that which relates to the Favourable Conservation Status of the species in question.

Appendix A provides a definition of “protected or priority species” for the purposes of this report, and Appendix B provides details on the legislation for species relevant to this site.



## **2     METHODOLOGY**

### **2.1     Desk Study**

The desk study comprised a review of various online websites including the Royal Society for Protection of Birds (RSPB), National Biodiversity Network, MAGIC and British Trust for Ornithology (BTO).

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

### **2.2     Wintering Bird Survey**

The surveys were undertaken between the months of October 2021 and March 2022 (inclusive), by Chris Bradshaw and David Pearce. Both Chris and David have extensive experience of bird surveys and are highly competent in this field. They have undertaken surveys, over many years, in a variety of habitat types, both in the UK and abroad and are authoritative in this field, under the CIEEM competency framework. Chris and David were accompanied by Peak Ecology staff for health and safety purposes whilst undertaking the surveys.

#### **2.2.1   *Survey Methods***

Survey methods followed industry standards, outlined by BTO, RSPB and Joint Nature Conservation Committee (JNCC). In the most part, surveyors arrived on site within one hour of sunrise, this was deviated from in cases where a specific state of tide was being targeted at transects or vantage points at or adjacent to tidal environments. Times on site were noted on every survey visit, in addition to weather conditions and observations of disturbance which may have influenced the number of birds present on site.

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

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

#### **Transects**

Transect surveys were completed following set transect routes and recorded all birds viewable from the transect route. Due to landowner access not being in place, the transects and vantage points were accessed via publicly accessible means, i.e. PRow.

#### **Vantage Points**

Vantage Points were surveyed for 15 minutes and recorded birds in all directions where the habitat and topography allowed. The vantage points were accessed by PRow.



### 2.2.2 Access

Each of the transects and vantage points were accessed via PRow, therefore landowner access permission was not necessary. The temporary closure of Tophill Low Site of Special Scientific Interest (SSSI) meant that it was unable to be surveyed during February and March. Two transects, T4 and T6, which followed the cliff tops, were re-aligned so that the route was a safe distance from the eroding cliffs identified in December.

### 2.2.3 Survey dates

The surveys were undertaken between late October 2021 and late March 2022. Due to delays in survey commencement, a small proportion of the first visit transects were undertaken in early November. Full survey visit details are provided in Appendix C.

**Table 1: Survey dates**

Visit number	Survey dates
1	26/10/2021 – 08/11/2021
2	16/11/2021 – 25/11/2021
3	09/12/2021 – 22/12/2021
4	11/01/2022 – 25/01/2022
5	08/02/2022 – 25/02/2022
6	02/03/2022 – 25/03/2022

## 2.3 Evaluation of Assemblage

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

- Birds of Conservation Concern 5 (BoCC5);
- Local and National Species of Principle Importance;
- Status in Yorkshire;
- Species richness (Fuller, 1980); and
- Protected Site selection criteria:
  - Special Protection Area (SPA)
  - SSSI
  - Local Wildlife Site (LWS)

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

### 2.3.1 Birds of Conservation Concern 5 (BoCC5)

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



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

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

### 2.3.2 *Local and National Species of Principal Importance*

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

The local BAP priority species reflects the national list.

### 2.3.3 *Species Richness*

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

**Table 1: Number of Bird Species at Different Types of Site.**

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



### 2.3.4 **Protected Site Selection Criteria**

#### European Importance

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

#### National Importance

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

#### Regional Importance

The East Yorkshire Local Wildlife Site Selection Criteria (Fraser *et al*, 2003) stipulates two categories related to wintering bird assemblages.

- B2: Any site that supports 0.5% of the UK wintering or migratory population of a bird; and
- B6: Any wetland site that regularly supports significant populations of at least ten species of overwintering water-birds of conservation concern.

“This guideline will be applied to sites that regularly support significant populations of at least 10 species of wintering waterbirds of conservation concern. Species of conservation concern include those listed under section 41 of the NERC Act, UK BAP species and those species listed on the Red and Amber categories of the most recent edition of ‘Birds of conservation concern’ published by the RSPB (currently 2009). Water-birds include wildfowl, divers, grebes, herons, rails and waders. Gulls are not included in this guideline. Sites should have monthly counts for at least three consecutive winters (November to February). Significant populations are considered to be an average monthly maxima of at least 200 birds for the combined list of species of conservation concern. At least eight species of conservation concern should be recorded in each year with the combined monthly maxima averaging over 200 in at least two of the three years. Wetland sites include open water, swamp, fen and wet grassland. Sites may include patches of habitat which are not contiguous, if the birds regularly make use of sites in close proximity to one another”.



### 2.3.5 *Lifespan of Data*

The results and recommendations contained within this report are considered to be valid for up to two years from the date of survey, assuming that there are no significant changes to the site condition or habitat management within this period. After this period, or should the site conditions change, an update may be required in order to inform ecological constraints to development proposals and/or accompany a planning submission. Due to the refinements made to the Onshore Study Area since the 2021/2022 OWB surveys, a further OWB effort is planned for the winter of 2022/2023.



### 3 **RESULTS**

#### 3.1 **Desk Study**

##### 3.1.1 ***Designated Sites***

The following information outlines statutory designated wildlife sites which lie within 2km of the OWB survey transects. Statutory sites include SSSI's and SPA's. It also included is a list of LWS which are intersected directly by the transect.

**Table 3: Designated sites identified during the desk study**

<b>LWS</b>	<b>Transect (TX) and Vantage Point (VPX) for which site is relevant to</b>
Fraisthorpe Beach	T1
Low Wood, Wassand	T3
Arram Carrs	T9
Tophill Low	T10
Beverley Westwood LWS	VP5
<b>SSSI</b>	
Burton Bushes SSSI	VP5
Bryan Mills Field SSSI	VP6
Hornsea Mere SSSI	T3
Leven Canal SSSI	T9
Pulfin Bog SSSI	T9
River Hull Headwaters SSSI	T7, T8, VP9, VP10, VP11, VP12, VP13
Skipsea Bail Mere SSSI	T2
Tophill Low SSSI	T10
<b>SPA</b>	
Greater Wash SPA	T1, T2, T3, T4, T5, T6, VP1, VP2, VP3, V4
Hornsea Mere SPA	T3

#### Bryan Mills Field SSSI

Designated for fen habitat present, birds are not a qualifying feature for this site.

#### Burton Bushes SSSI

This site holds its designation for the presence of ancient woodland and rich woodland species, birds are not a qualifying feature for this site.

#### Hornsea Mere SSSI

The Hornsea Mere SSSI site holds importance for birds, in particular over-wintering birds, providing a refuge and feeding area for many species of duck. These include mallard and goldeneye, as well as supporting breeding species such as gadwall, and shoveler. Other bird species that use the habitat include breeding reed warbler and roosts of starling.



### Leven Canal SSSI

Leven Canal is a designated SSSI due to its habitats and plant species, birds are not a qualifying feature for this site.

### Pulfin Bog SSSI

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

### River Hull Headwaters SSSI

This site holds its SSSI designation partly for the riparian vegetation including species-rich wet grassland and fen. The valley supports breeding birds including lapwing, snipe, yellow wagtail and sedge warbler.

### Skipsea Bail Mere SSSI

This site holds its designation for its importance for the study of climatic and vegetation change since the end of the last glaciation, as well as the pollen record of rare species Water Chestnut *Trapa natans*. birds are not a qualifying feature for this site.

### Top Hill Low SSSI

Top Hill low is a designated SSSI as it is one of the few inland standing open water bodies that is suitable for over-wintering wildfowl. It supports nationally important concentrations (that is 1% or more of the British wintering population) of gadwall, and shoveler and tufted duck together with locally important populations of goldeneye, great crested grebe and wigeon.

### Greater Wash SPA - Marine

Greater wash SPA is classified for the protection of several Annex 1 bird species, including common Scoter and sandwich tern. This designation gives protection to the largest breeding populations of little tern in the UK marine SPA network, as well as areas used by the second largest non-breeding populations of red-throated diver and little gull.

### Hornsea Mere SPA

SPA designation specifically for bird species gadwall and mute swan.

### **3.1.2 Bird Species**

Table 4 below provides a summary of the bird species records received from the biological record centre, for the Creyke Beck Onshore Study Area plus the 2km buffer. Only those records are considered most relevant to the Creyke Beck Onshore Study Area are included. The full dataset is not included here but is available on request.



**Table 4: Summary of bird species records relevant to the site**

<b>Species</b>	<b>Common name</b>	<b>Total Number of Records</b>	<b>Most recent Record</b>	<b>BoCC</b>	<b>Priority Species</b>
<b>Schedule 1 Species</b>					
<i>Alcedo atthis</i>	Kingfisher	2	2016		
<i>Botaurus stellaris</i>	Bittern	1	2015	Amber	Yes
<i>Calidris pugnax</i>	Ruff	1	2013	Red	
<i>Cettia cetti</i>	Cetti's Warbler	4	2019		
<i>Charadrius dubius</i>	Little Ringed Plover	2	2018		
<i>Circus cyaneus</i>	Hen Harrier	1	2015	Red	
<i>Cygnus cygnus</i>	Whooper Swan	1	2017	Amber	
<i>Falco columbarius</i>	Merlin	2	2019	Red	
<i>Falco peregrinus</i>	Peregrine	11	2019		
<i>Falco subbuteo</i>	Hobby	1	2012		
<i>Fringilla montifringilla</i>	Brambling	1	2013		
<i>Milvus milvus</i>	Red Kite	10	2019		
<i>Phoenicurus ochruros</i>	Black Redstart	1	2014	Amber	
<i>Tringa ochropus</i>	Green Sandpiper	2	2017	Amber	
<i>Turdus iliacus</i>	Redwing	1	2013	Amber	
<i>Turdus pilaris</i>	Fieldfare	2	2016	Red	
<i>Tyto alba</i>	Barn Owl	27	2018		
<b>Other Notable Species</b>					
<i>Acanthis cabaret</i>	Lesser Redpoll	1	2018	Red	Yes
<i>Accipiter nisus</i>	Sparrowhawk	5	2016	Amber	
<i>Alauda arvensis</i>	Skylark	7	2020	Red	Yes
<i>Anas crecca</i>	Teal	4	2019	Amber	
<i>Anas platyrhynchos</i>	Mallard	15	2018	Amber	
<i>Anser anser</i>	Greylag Goose	5	2018	Amber	
<i>Anser brachyrhynchus</i>	Pink-footed Goose	2	2017	Amber	
<i>Anthus pratensis</i>	Meadow Pipit	4	2013	Amber	
<i>Anthus trivialis</i>	Tree Pipit	1	2013	Red	
<i>Apus apus</i>	Swift	53	2018	Red	
<i>Ardea alba</i>	Great White Egret	1	2018	Amber	
<i>Arenaria interpres</i>	Turnstone	2	2014	Amber	
<i>Asio flammeus</i>	Short-eared Owl	1	2013	Amber	
<i>Bucephala clangula</i>	Goldeneye	1	2018	Red	
<i>Chloris chloris</i>	Greenfinch	6	2015	Red	



<i>Species</i>	Common name	Total Number of Records	Most recent Record	BoCC	Priority Species
<i>Chroicocephalus ridibundus</i>	Black-headed Gull	3	2017	Amber	
<i>Circus cyaneus</i>	Hen Harrier	1	2015	Red	
<i>Columba oenas</i>	Stock Dove	7	2019	Amber	
<i>Corvus frugilegus</i>	Rook	7	2015	Amber	
<i>Cuculus canorus</i>	Cuckoo	2	2013	Red	Yes
<i>Delichon urbicum</i>	Common House Martin	5	2018	Red	
<i>Emberiza calandra</i>	Corn Bunting	3	2012	Red	Yes
<i>Emberiza citrinella</i>	Yellowhammer	9	2019	Red	Yes
<i>Emberiza schoeniclus</i>	Reed Bunting	4	2020	Amber	Yes
<i>Falco tinnunculus</i>	Kestrel	36	2019	Amber	
<i>Gallinago gallinago</i>	Snipe	4	2015	Amber	
<i>Gallinula chloropus</i>	Moorhen	11	2013	Amber	
<i>Grus grus</i>	Crane	1	2014	Amber	
<i>Haematopus ostralegus</i>	Oystercatcher	7	2019	Amber	
<i>Larus argentatus</i>	Herring Gull	4	2015	Red	
<i>Larus canus</i>	Common Gull	5	2017	Amber	
<i>Linaria cannabina</i>	Linnet	9	2018	Red	Yes
<i>Locustella naevia</i>	Grasshopper Warbler	5	2015	Red	Yes
<i>Motacilla flava</i>	Yellow Wagtail	2	2015	Red	yes
<i>Numenius arquata</i>	Curlew	5	2018	Red	Yes
<i>Numenius phaeopus</i>	Eurasian Whimbrel	3	2018	Red	
<i>Oenanthe oenanthe</i>	Wheatear	4	2016	Amber	
<i>Passer domesticus</i>	House Sparrow	9	2018	Red	Yes
<i>Passer montanus</i>	Tree Sparrow	11	2018	Red	Yes
<i>Perdix perdix</i>	Grey Partridge	5	2013	Red	Yes
<i>Phylloscopus sibilatrix</i>	Wood Warbler	1	2013	Red	Yes
<i>Phylloscopus trochilus</i>	Willow Warbler	6	2019	Amber	
<i>Podiceps grisegena</i>	Red-necked Grebe	1	2019	Red	
<i>Poecile palustris</i>	Marsh Tit	3	2018	Red	Yes
<i>Prunella modularis</i>	Dunnock	14	2019	Amber	Yes
<i>Pyrhula pyrrhula</i>	Eurasian Bullfinch	7	2018	Amber	Yes
<i>Saxicola rubetra</i>	Whinchat	1	2014	Red	



<i>Species</i>	Common name	Total Number of Records	Most recent Record	BoCC	Priority Species
<i>Scolopax rusticola</i>	Woodcock	1	2018	Red	
<i>Sterna hirundo</i>	Common Tern	2	2018	Amber	
<i>Strix aluco</i>	Tawny Owl	7	2019	Amber	
<i>Sturnus vulgaris</i>	Starling	10	2018	Red	Yes
<i>Tadorna tadorna</i>	Shelduck	4	2019	Amber	
<i>Tringa glareola</i>	Wood Sandpiper	1	2012	Amber	
<i>Tringa totanus</i>	Redshank	6	2018	Amber	
<i>Troglodytes troglodytes</i>	Eurasian Wren	16	2019	Amber	
<i>Turdus philomelos</i>	Song Thrush	10	2018	Amber	Yes
<i>Turdus torquatus</i>	Ring Ouzel	1	2012	Red	Yes
<i>Turdus viscivorus</i>	Mistle Thrush	3	2016	Red	
<i>Vanellus vanellus</i>	Lapwing	11	2018	Red	Yes

### 3.2 Wintering Bird Survey

Across all of the survey areas, and survey visits, a total of 135 species were recorded, this included 33 red listed, 47 amber listed species. In addition, 24 Schedule 1 species were recorded.

A summary of the Birds of Conservation Concern, and Schedule 1 species are provided below, full species lists can be found in Appendix C, and results provided in the figures presented in Appendix E.

Colour coding denotes the status of species as follows:

- **Red text** = Red Listed Bird of Conservation Concern
- **Orange text** = Amber Listed Bird of Conservation Concern
- **Bold text** = Schedule 1 species (which may or may not have a conservation listing)

#### 3.2.1 Transects

Table 5 provides an overview of the diversity of assemblages, numbers of Birds of Conservation Concern and Schedule 1 species for each Transect. By way of comparison, the transect length and average number of species per kilometre is shown.



**Table 5 Summary of Results for Transects**

Transect	Length (km)	Total Species	Sp./km	No. Red Listed	No. Amber Listed	No. Schedule 1
1	5	73	14	19	28	6
2	6	70	13	17	25	4
3	10	88	9	21	30	10
4	1	47	47	10	19	2
5	1	36	36	8	16	2
6	10	65	7	18	21	7
7	3	58	19	12	19	6
8	4	72	19	15	26	5
9	18	86	5	20	26	7
10	5	62	12	12	20	1

### Transect 1

Transect 1 was 5km in length, forming a looped transect and was located just to the north of Barmston, with the eastern section of the transect following the coast. The rest of the route travels through farmland, with a caravan park located on the southern boundary.

A diverse assemblage of seventy-three species were recorded across the six survey visits, this included five Schedule 1 species, 17 red listed and 30 amber listed species. Notable observations included wader roosts on the beach of sanderling, dunlin and ringed plover primarily, but also grey plover were recorded. Farmland birds included good numbers of yellowhammer, tree sparrow, grey partridge and reed and corn bunting were also recorded. Lapland bunting was also a notable record. Water rail were recorded.

A single great northern diver and a small number of common scoter were observed at sea.

**Table 6 Summary of Results for Transect 1**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull	149	93		81	56	32	411
Common Gull	78	250	99	237	666	238	1568
Common Scoter		3					3
Corn Bunting			14	42	2		58
Dunlin			1	9		11	21
Dunnock		2	1	2		1	6
Fieldfare		4				18	22
Gannet		1					1
Great Black-backed Gull	1	10	1		3	2	17
Great Northern Diver		1					1
Greenfinch	2	2	4		6	8	22
Grey Partridge		16		6	4	2	28
Grey Plover			4	11	9		24
Grey Wagtail	1						1



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Greylag Goose		1					1
Herring Gull	314	32	122	65	63	78	674
House Sparrow			6		4	2	12
Kestrel	1	3	3	1		1	9
Kittiwake					1		1
Knot	3	4					7
Lapland Bunting		1	1		1		3
Lapwing		2			1		3
Linnet		29	8	26	46	22	131
Mallard			14	2		2	18
Meadow Pipit	8	3	1	6	2		20
Mistle Thrush				1			1
Oystercatcher			14				14
Pink-footed Goose	121	4					125
Red-throated Diver	1	5		3	3		12
Redwing		1	8				9
Reed Bunting	20	16	10	4	8	7	65
Ringed Plover	48		40	51		38	177
Rook	92	19	79	140	145	14	489
Sanderling	3	10	67	7		74	161
Short-eared Owl				1			1
Shoveler						1	1
Skylark	23	12	14		31	12	92
Snipe	5	1					6
Song Thrush		2	3		1		6
Sparrowhawk		1					1
Starling	111	1413	54	270	58	14	1920
Stock Dove	2	3					5
Teal			10		4	6	20
Tree Sparrow	8	5		12	27		52
Turnstone		8	6				14
Wigeon			11				11
Wood Pigeon	9	41	26		2177	34	2287
Wren	3	11	4	2	2	1	23
Yellowhammer	10	13	19	3	98	40	183
<b>Totals</b>							
<b>Total Species</b>							<b>73</b>
<b>No. Red Listed</b>							<b>17</b>
<b>No. Amber Listed</b>							<b>30</b>
<b>No. Schedule 1</b>							<b>5</b>

Transect 2



Transect 2 was 6km long, and also formed a loop but was located to the south of Barmston, running parallel with the coastline on the east side, however not immediately adjacent to it, with the majority of the route located within arable farmland. The route incorporated a small residential area to the north of the transect.

Seventy species were recorded across the six survey visits, this included five Schedule 1 species, 18 red listed and 26 amber listed species. Similar to Transect 1, there were wader roosts on the beach, consisting of dunlin, sanderling and ringed plover. A small group of snow bunting was recorded on visit six.

Inland, small numbers of farmland birds were recorded, including grey partridge, linnet and yellowhammer. Tree and house sparrows were observed associated with the residential area.

**Table 7 Summary of Results for Transect 2**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull	162	105			1		268
Bullfinch		2	4				6
Common Gull	244	400	13	1	20	41	719
Common Sandpiper	2						2
Dunlin				7	6		13
Dunnock	2	4	5	4	1	10	26
Fieldfare			1	9		32	42
Great Black-backed Gull		2			1	18	21
Greenfinch	2	2	18	4	7	4	37
Grey Partridge	21	22	25	14	6	7	95
Herring Gull	255	111	14	23	55	139	597
House Sparrow	4	28	23	11	37	26	129
Kestrel	1	2	2	1	1		7
Linnet	86	52	20	49	47	97	351
Mallard		4	1	7	5	34	51
Meadow Pipit	7	2		1	1	4	15
Mediterranean Gull	1						1
Mistle Thrush		2		1		2	5
Moorhen	1	8	9	7	5	4	34
Pink-footed Goose	608	49		1	1		659
Purple Sandpiper				1			1
Redwing			2				2
Reed Bunting	8	9	1	2	4	12	36
Ring Ouzel						1	1
Ringed Plover				68	46	1	115
Rook	20	36	140	24		20	240
Sanderling				9	51		60
Shelduck	30					1	31
Skylark	43	62	11	1	14	25	156
Snow Bunting						4	4



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Song Thrush			1	1	1	4	206
Sparrowhawk	1						1
Starling	1013	95	36	21	21	8	1194
Stock Dove		3	18	4		4	29
Teal			4	1			5
Tree Sparrow	4	2	4	9	23	7	49
Turnstone	6	1		9			16
Whooper Swan	6						6
Wigeon				161			161
Wood Pigeon	109	241	67	85	90	38	630
Woodcock		1					1
Wren	5	9	9	2	3	4	32
Yellowhammer	9	22	3			6	40
<b>Totals</b>							
<b>Total Species</b>							<b>70</b>
<b>No. Red Listed</b>							<b>18</b>
<b>No. Amber Listed</b>							<b>26</b>
<b>No. Schedule 1</b>							<b>5</b>



### Transect 3

Transect 3 was 8km in length, following the southern boundary of Hornsea Mere SPA in one direction. The route travels through and/or adjacent to arable farmland, scrub and woodland areas and offered view across the mere at a small number of locations.

An extremely diverse range of species was recorded from Transect 3; a total of eighty-eight species, including ten Schedule 1 species, 19 red listed and 32 amber listed species.

Of particular note were the presence of marsh harrier across all visits, in addition to Cetti's warbler associated with the reed and scrub areas. There was a large assemblage of wildfowl associated with the mere itself, including good numbers of goldeneye, pochard, with observations of Slavonian grebe, black-necked grebe, scaup, smew, long-tailed duck and recorded. A starling roost, of 6,000 birds, was noted.

Barnacle, brent and pink-footed geese were recorded on the open fields adjacent to the mere and lapwing were observed displaying during the final visit.

**Table 8 Summary of Results for Transect 3**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Barnacle Goose	140	215	150			1	506
Black-headed Gull	540	69	31	113	48	90	891
Black-necked Grebe						1	1
<b>Black-throated Diver</b>				190			190
<b>Brambling</b>					2	1	3
Brent Goose	11					1	12
Bullfinch	2	2	1			2	7
<b>Cetti's Warbler</b>	4				4	2	10
Common Gull	87	35	1	6	23	3	155
<b>Common Scoter</b>	2						2
Curlew		2		8	9		19
Dunnock	5	1	3		4	6	19
Gadwall	69	149	216	73	62	34	603
Goldeneye	60	73	60	155	145	115	608
Great Black-backed Gull	29	24	1	6	16	1	77
Greenfinch			4	3	2	3	12
Grey Partridge	2					9	11
Grey Wagtail	1						1
Greylag Goose	32	1100			2	28	1162
Herring Gull	26	41	16	15	31	46	175
House Sparrow	7		1		3	2	13
Kestrel	3	4	1	1	2		11
Lapwing			5		65	4	74
Linnet	35	1	43	30	4	39	152
<b>Long-tailed Duck</b>				1		1	2
Mallard	87	36	62	116	21	54	376



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Marsh Harrier	2	2	2	1	2	3	12
Meadow Pipit		1				1	2
Mediterranean Gull	1						1
Mistle Thrush			1	1			2
Moorhen	1		2	2	1	1	7
Oystercatcher						1	1
Pink-footed Goose	217	189	170		245		821
Pochard	2	3	139	47	111	51	353
Redwing	45		25	16	1		87
Reed Bunting	7	4	11	7	15	10	54
Ringed Plover	2	3					5
Rook	37	2	10	1		9	59
Scaup	1						1
Shelduck					1		1
Shoveler					17	26	43
Skylark	1	1			4	20	26
Slavonian Grebe		1					1
Smew						1	1
Snipe				1			1
Song Thrush					4	7	11
Starling	6935	6	1	1	4	9	6956
Stock Dove		4	1			3	8
Teal	3		11	22	38	23	97
Tree Sparrow			1			6	7
Wigeon	57	9	616	925	144	47	1798
Wood Pigeon	143	13	70	3	26	27	282
Wren	15	2	5		3	11	36
Yellowhammer			18				18
<b>Totals</b>							
<b>Total Species</b>							<b>88</b>
<b>No. Red Listed</b>							<b>19</b>
<b>No. Amber Listed</b>							<b>32</b>
<b>No. Schedule 1</b>							<b>10</b>

#### Transect 4

Transect 4 was 1km long, located to the east of the village of Tunstall, it followed the coast in a north-east to south-west direction. Following significant erosion to the cliffs in December 2021 (visit 3), the route was altered to avoid the cliff edge, and instead followed the nearest field boundary through arable farmland.

Forty-seven species were recorded from Transect 4, this included two Schedule 1 species, ten red listed and 19 amber listed species. Twite and snow bunting were recorded on the



beach, along with small roosts of waders. The beach was subject to disturbance by fisherman which may have impacted on bird usage. Red-throated diver and teal were recorded on the sea.

**Table 9 Summary of Results for Transect 4**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Bullfinch						2	2
Common Gull	13	16	115	3	8	2	157
Dunnock	1			1	1	6	9
Great Black-backed Gull	11	1	1			4	17
Guillemot			1	2			3
Herring Gull	23	12	10	7	3	64	119
House Sparrow					6		6
Kestrel	1	1			1		3
Knot	2						2
Lesser Redpoll	2						2
Linnet		5			38	17	60
Mallard						2	2
Meadow Pipit	2					2	4
Moorhen					1		1
<b>Red-throated Diver</b>		2	11		2		15
Reed Bunting						2	2
Ringed Plover		21					21
Sanderling		24		3	1	1	29
<b>Snow Bunting</b>	15	1					16
Song Thrush				1	2		3
Sparrowhawk	1						1
Starling	28		60			14	102
Stock Dove					8	3	11
Teal					62		62
Tree Sparrow	6					1	7
Twite					1		1
Wood Pigeon				2	2	5	9
Wren	1			1	2	3	7
Yellowhammer				1		2	3
<b>Totals</b>							
<b>Total Species</b>							<b>47</b>
<b>No. Red Listed</b>							<b>10</b>
<b>No. Amber Listed</b>							<b>19</b>
<b>No. Schedule 1</b>							<b>2</b>

Transect 5



Transect 5 was also 1km long, located to the south of Transect 4, and similarly followed the coastline, with arable farmland to the west of the transect.

Thirty-six species were recorded from Transect 5, this included two Schedule 1 species, eight red listed and 16 amber listed species. Low numbers of waders were observed on the beach, with snow bunting also recorded. Red-throated diver was recorded on the sea.

**Table 10 Summary of Results for Transect 5**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull	2						2
Common Gull	6	8		12	57	9	92
Dunnock	1	1	1		1	1	5
Great Black-backed Gull		1	1	2	2		6
Greylag Goose	52		4				56
Herring Gull	4	2	36	4	3	61	110
House Sparrow	2					2	4
Knot			26				26
Lesser Black-backed Gull						1	1
Meadow Pipit						6	6
Pink-footed Goose				8			8
Red-breasted Merganser	1						1
<b>Red-throated Diver</b>		6	4	2			12
Ringed Plover	5		62		1		68
Rook					4		4
Sanderling			1				1
Skylark	7				5	6	18
<b>Snow Bunting</b>	1						1
Starling		32				31	63
Stock Dove						2	2
Tree Sparrow			8			2	10
Wood Pigeon	1				43	8	52
Woodcock	1						1
Wren	1		1			1	3
Yellowhammer		3	2			1	6
<b>Totals</b>							
<b>Total Species</b>							<b>36</b>
<b>No. Red Listed</b>							<b>8</b>
<b>No. Amber Listed</b>							<b>16</b>
<b>No. Schedule 1</b>							<b>2</b>



## Transect 6

Transect 6 was 10km in length, located between Holmpton and Easington, and formed two joined loops, with the eastern sides following the coastline.

Sixty-five species were recorded from Transect 6, this included seven Schedule 1 species, 17 red and 22 amber listed species. Farmland indicator species were recorded from the transect, including yellowhammer, corn bunting and skylark. Golden plover and curlew were also recorded inland. Over 2,200 pink-footed geese were recorded on visit 1. A peregrine pair and merlin were recorded.

**Table 11 Summary of Results for Transect 6**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull	206	109	34				349
<b>Brambling</b>						1	1
Bullfinch					1	4	5
Common Gull	372	216	43	72	573		1276
Corn Bunting					5	4	9
Curlew	4	4	2	9	20	1	40
Dunlin						1	1
Duncock	5	1	1		7	10	24
<b>Fieldfare</b>				48		2	50
Great Black-backed Gull	11	2	2				15
Greenfinch						3	3
Grey Partridge	18	15		5	2		40
Greylag Goose					4		4
Herring Gull	37	14	4	25	2	4	86
House Sparrow					22	7	29
Kestrel	6	4	2	2		1	15
Lesser Black-backed Gull						1	1
Linnet					5	17	22
Meadow Pipit	18	6	2	1	2	19	48
<b>Mediterranean Gull</b>	23	57	1				81
<b>Merlin</b>		1					1
<b>Peregrine</b>			1		3		4
Pink-footed Goose	2271	1000		32	388		3691
Razorbill						1	1
<b>Red-throated Diver</b>		1	29		13		43
<b>Redwing</b>	332		1	3		11	347
Reed Bunting	13	2	6	2	18	15	56
Ringed Plover	4						4
Rook	15			120	160	44	339
Skylark	12	26	6	17	46	34	141
Snipe						1	1
<b>Snow Bunting</b>				34			34



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Song Thrush	2		1		3	1	7
Sparrowhawk		1				1	2
Starling	505	220		255	163	15	1158
Stock Dove	25	5		25	6	12	73
Tree Sparrow	7	1	4	29	37	7	85
Twite	2						2
Wood Pigeon	39	29	50	529	130	28	805
Woodcock	14	1					15
Wren	9	2			4	6	21
Yellowhammer		1	9	12	22	11	55
<b>Totals</b>							
<b>Total Species</b>							<b>65</b>
<b>No. Red Listed</b>							<b>17</b>
<b>No. Amber Listed</b>							<b>22</b>
<b>No. Schedule 1</b>							<b>7</b>

### Transect 7

Transect 7 was 3km in length, located near Foston-on-the-Wolds. The route is within arable farmland, and follows Kelk Beck on the western side of the transect.

Fifty-eight species were recorded from Transect 7, including six Schedule 1 species, 11 red listed and 20 amber listed species. Small numbers of farmland birds were recorded, including tree sparrow. A, likely migrating, marsh harrier was recorded on the final visit. Peregrine was recorded.

**Table 12 Summary of Results for Transect 7**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull			2				2
Brambling		1					1
Bullfinch					1		1
Common Gull		45	6	49			100
Cormorant		2	1	2			5
Dunnock		1	1	2	3	2	9
Fieldfare			3	228	1		232
Great Black-backed Gull		3					3
Greenfinch					2		2
Grey Partridge				1			1
Grey Wagtail	1		1		1	1	4
Greylag Goose		7					7
Herring Gull	8	63					71
House Sparrow	2					2	4
Kestrel	1	1	2	1		1	6



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Kingfisher					1		1
Linnet	3	1		12	2	3	21
Mallard		6	1		3	7	17
Marsh Harrier						1	1
Mistle Thrush		2	2				4
Moorhen		2	4			2	8
Peregrine				1			1
Redwing			1	39			40
Reed Bunting	3	5	4		4	2	18
Rook	48	82	21	162	46	20	379
Skylark	1	1			9	8	19
Song Thrush	1		2	1	4		8
Starling	14	58	59	122	19	5	277
Stock Dove	26	6	9	6	11	4	62
Tawny Owl		1					1
Teal			8	8	20		36
Tree Sparrow		14	11	14	16	1	56
Wood Pigeon	30	66	104	111	156	26	493
Wren	2	17	2		7	9	37
Yellowhammer	6	10	15		8	1	40
<b>Totals</b>							
<b>Total Species</b>							<b>58</b>
<b>No. Red Listed</b>							<b>11</b>
<b>No. Amber Listed</b>							<b>20</b>
<b>No. Schedule 1</b>							<b>6</b>



## Transect 8

Transect 8 was 4km in length and located to the west of Transect 7, near to Wansford. It followed a section of the Driffield canal and adjacent to the River Hull Headwaters SSSI.

Seventy-two species were recorded from Transect 8, including five Schedule 1 species, 14 red listed and 27 amber listed species. There were notable concentrations of birds recorded in association with the river and trout farm, in particular large numbers of cormorants and herons. Cetti's warbler, marsh harrier and water rail were recorded associated with reed areas.

**Table 13 Summary of Results for Transect 8**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull	50	74	14	6	19		163
Bullfinch	2		1		1		4
<b>Cetti's Warbler</b>	1		1		1	4	7
Common Gull	44	17	2	13	23		99
Dunnock	1	4	1	1	3	6	16
<b>Fieldfare</b>		7		48			55
Gadwall						6	6
Goldeneye			2				2
Great Black-backed Gull		1					1
<b>Green Sandpiper</b>	1	2	2	1			6
Greenfinch						2	2
Grey Partridge			5				5
Grey Wagtail			1	2		1	4
Greylag Goose			126	4	2	4	136
Herring Gull	1	13	4	4	5	11	38
House Sparrow			2		1	2	5
Kestrel	2	1	3	4		2	12
<b>Kingfisher</b>	1		1		1	5	8
Lapwing				85	2	1	88
Linnet	1		16		2	11	30
Mallard	2	13	11	6	10	26	68
<b>Marsh Harrier</b>		1		1		1	3
Marsh Tit					2		2
Meadow Pipit		1					1
Mistle Thrush	2	1	2	3	2	1	11
Moorhen	17	1	25	25	9	5	82
Pink-footed Goose	742						742
<b>Redwing</b>			1		1		2
Reed Bunting	6			2	3	10	21
Rook	70	158	51	15	64	2	360
Skylark	3	9		1	4	6	23
Snipe	1					1	2
Song Thrush	1	1		2	1	2	7



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Sparrowhawk		1		1			2
Starling	523	115	102	43	26	4	813
Stock Dove	11	17		2	4	4	38
Teal				5		8	13
Tree Sparrow				6	2	4	12
Whooper Swan		2					2
Wigeon	17				16	2	35
Wood Pigeon	31	6	14	19	22	14	106
Wren	10	5	7	3	8	19	52
Yellowhammer	2			2	3	1	8
<b>Totals</b>							
<b>Total Species</b>							<b>72</b>
<b>No. Red Listed</b>							<b>14</b>
<b>No. Amber Listed</b>							<b>27</b>
<b>No. Schedule 1</b>							<b>6</b>



## Transect 9

Transect 6 was 17km in length, and divided in to two parts, 9a and 9b, to allow the transect to be effectively surveyed within a morning. Transect 9a ran adjacent to Pulfin Bog SSSI and incorporated part of the Beverley and Barmston drain, and 9b followed the Leven Canal SSSI.

Transect 9 supported one of the most diverse assemblages of the survey, with eighty-seven species, this included eight Schedule 1 species, 19 red listed and 27 amber listed species. Marsh harrier, Cetti's warbler and water rail were recorded across the survey period.

The pools supported good numbers of wildfowl, including goldeneye, gadwall, shoveler, shelduck and scaup. Waders such as greenshank and redshank were also recorded.

Lapwing and golden plover were recorded using the open fields in addition to farmland passerines tree sparrows, yellowhammer and linnet. A flock of over 2,000 pink-footed geese were recorded on the first visit and a bittern recorded along the Leven canal on the final visit.

**Table 14 Summary of Results for Transect 9**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
<b>Bittern</b>						1	1
Black-headed Gull	74	20	49	83	217	137	580
Bullfinch	4	3	7	3	1	1	19
<b>Cetti's Warbler</b>	7	8	5	5	6	10	41
Common Gull	304	71	210	104	146	93	928
Curlew				34	10		44
Dunlin	3					14	17
Dunnock	4	4	5	2	4	4	23
<b>Fieldfare</b>		98	9	172	113	189	581
Gadwall	2	4	7	26	32	29	100
Goldeneye		2	3	7	15	19	46
Great Black-backed Gull		1					1
Greenfinch			51		2	3	56
Grey Partridge	7		2	1			10
Grey Wagtail		3	2		1		6
Greylag Goose	16	349	553	229	324	128	1521
Herring Gull	2	1	13	12	1	4	33
House Sparrow	2	10		4	13	16	45
Kestrel	6	3	5	2	2	4	22
<b>Kingfisher</b>		1			1	1	3
Lapwing	460	44	634	468	1078	612	3296
Lesser Black-backed Gull						4	4
Linnet	70		4	1	17	21	113
Mallard	113	32	63	67	116	24	415
<b>Marsh Harrier</b>	2	2	3	3	2		12
Meadow Pipit	6		5	2	10	1	24
Mistle Thrush	2		1				3



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Moorhen	15	16	14	8	15	9	77
Pink-footed Goose	2060	8	24	24			2116
Pochard						1	1
Redshank	2	2		60	14	85	163
Redwing	3	43		11	5		62
Reed Bunting	22	40	29	23	62	44	220
Ringed Plover					224		224
Rook	142	151	51	84	107	60	595
Scaup				1	1		2
Shelduck					2	2	4
Shoveler		1	4			29	34
Skylark	27	12	13	1	6	27	86
Snipe	1			6	8	1	16
Song Thrush	2	13	3		2	3	23
Sparrowhawk	2	1	2	3			8
Starling	391	1931	1016	152	950	113	4553
Stock Dove	31	35	3	3	7	4	83
Teal	484	93	218	1214	134	132	2275
Tree Sparrow	26			5			31
Whooper Swan	2	2					4
Wigeon	123	47	6	101	16	59	352
Wood Pigeon	406	76	489	325	313	898	2507
Woodcock					1		1
Wren	15	20	19	11	11	13	89
Yellowhammer	4	25	18	12	42	57	158
<b>Totals</b>							
<b>Total Species</b>							<b>86</b>
<b>No. Red Listed</b>							<b>19</b>
<b>No. Amber Listed</b>							<b>27</b>
<b>No. Schedule 1</b>							<b>8</b>



## Transect 10

Transect 10 was located at Tophill Low SSSI, just to the south-west of Hempholme.

It was created after the first survey visit, when it became apparent that there was not sufficient time to survey the two areas for Vantage Points 7 and 8, in the allocated time. The transect was created to allow survey of these vantage point areas in a morning where more time would be available and a more thorough survey could be undertaken. The transect was unable to be surveyed after the January visit due to Yorkshire Water works preventing site access.

Sixty-two species were recorded during the four visits, with 12 red listed and 21 amber listed species. Two Schedule 1 listed species were noted.

**Table 15 Summary of Results for Transect 10**

Species	Visit 1	Visit 2	Visit 3	Visit 4
Black-headed Gull	46	88	24	
Common Gull	47	83	14	5
Curlew		3		
Duncock			1	
Gadwall		45	67	
Goldeneye	14	21	22	12
Great Black-backed Gull	5	6		
Greylag Goose		514	114	
Herring Gull	11	7		6
Kestrel	1	1	1	
Lapwing		34	130	
Linnet			40	
Mallard		71	116	
Marsh Tit			1	
Moorhen		3	4	
Pintail			2	
Pochard	88	169	139	46
Redshank		2	23	
<b>Redwing</b>			14	
Reed Bunting	2		1	
Rook	42		3	
Shoveler	67	49	87	62
Skylark	1	2		
<b>Smew</b>			1	
Song Thrush		13	1	
Sparrowhawk		1		
Stock Dove			2	
Teal	12		438	22
Wigeon		169	336	143
Wood Pigeon	3		50	7



Species	Visit 1	Visit 2	Visit 3	Visit 4
Wren	2	1	3	1
Yellowhammer	1			
				Totals
<b>Totals species</b>				<b>62</b>
<b>No. Red Listed</b>				<b>12</b>
<b>No. Amber Listed</b>				<b>21</b>
<b>No. Schedule 1</b>				<b>2</b>



### 3.2.2 *Vantage Points*

Thirteen Vantage Points (VPs) were surveyed during the 2021/22 winter period, this included VP's 7 and 8 which were transferred in to an additional transect route (Transect 10) to allow a more effective survey after the first survey visit.

The VPs tended to record a lower number of species/records due to the fact that they were a static survey of 15 minutes.

Table 16 provides a summary of the results for each of the VPs, full list of Birds of Conservation Concern and Schedule 1 species are provided under each of the VP headings, and colour coded according to the conservation status (red and amber), with Schedule 1 species in bold.

**Table 16 Summary of Results for all Vantage Points**

VP No.	Total Species	No. Red Listed	No. Amber Listed	No. Schedule 1
1	24	4	12	1
2	26	10	9	2
3	24	8	10	4
4	21	6	9	3
5	28	8	5	1
6	30	8	10	2
7	See Transect 10			
8				
9	49	12	18	4
10	43	7	20	4
11	42	10	16	3
12	37	9	11	3
13	39	8	13	3



### Vantage Point 1

VP1 was located to the east of Aldborough, on the top of a cliff, with arable farmland to the west.

Twenty-four species were recorded from VP1, this included one Schedule 1 species, four red listed and 12 amber listed species. The Vantage Point generally recorded low levels of activity across the survey visits, with the most notable observations those of red-throated diver on the sea and low numbers of sanderling on the beach.

**Table 17 Summary of Results for Vantage Point 1**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull						11	11
Common Gull	23	5	23	19	3	6	79
Great Black-backed Gull			3	1	1	1	6
Greylag Goose						3	3
Guillemot				1			1
Herring Gull	1	2	5		13	13	34
Linnet	7						7
Mallard						2	2
Meadow Pipit		1				3	4
Oystercatcher						2	2
Pink-footed Goose	54						54
Red-throated Diver		2	13		3		18
Sanderling			6		2		8
Skylark					2	3	5
Starling		84					84
Wood Pigeon		3			2		5
Wren				1			1
<b>Totals</b>							
<b>Total Species</b>							<b>24</b>
<b>No. Red Listed</b>							<b>4</b>
<b>No. Amber Listed</b>							<b>12</b>
<b>No. Schedule 1</b>							<b>1</b>



## Vantage Point 2

VP2 was located between Aldborough and Grimston, within arable farmland and near to a watercourse.

There were 26 species recorded from VP2, this included two Schedule 1 species, 10 red listed and nine amber listed species.

A small number of farmland species, such as yellowhammer, corn bunting, reed bunting, tree sparrow and lapwing. A single peregrine was recorded on Visit 2.

**Table 18 Summary of Results for Vantage Point 2**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Common Gull				15	35		50
Corn Bunting						2	2
Fieldfare			15		8		23
Great Black-backed Gull	2						2
Herring Gull						3	3
House Sparrow				12			12
Kestrel		1	1	1	1		4
Lapwing	32						32
Linnet						4	4
Meadow Pipit	1					1	2
Peregrine		1					1
Reed Bunting						3	3
Rook		14	120			1	135
Skylark	1				11	4	16
Starling		258					258
Stock Dove		22					22
Tree Sparrow				2			2
Wood Pigeon	27					70	97
Wren	1						1
Yellowhammer			2				2
<b>Totals</b>							
<b>Total Species</b>							<b>26</b>
<b>No. Red Listed</b>							<b>10</b>
<b>No. Amber Listed</b>							<b>9</b>
<b>No. Schedule 1</b>							<b>2</b>



### Vantage Point 3

VP3 was located on the cliff top, to the north of Withernsea. Arable farmland was located to the west. It was a field boundary to the north of VP4.

Twenty-four species were recorded from VP3, four Schedule 1, seven red and 11 amber listed species.

Red-throated diver and goldeneye were recorded out at sea, and barn owl recorded inland. A flock of snow bunting was of note on Visit 1.

**Table 19 Summary of Results for Vantage Point 3**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
<b>Barn Owl</b>					1		1
Black-headed Gull	2		2	4	16		24
Common Gull	3	2	19	110	11		145
Curlew			8				8
Goldeneye			1				1
Great Black-backed Gull		1	1		2		4
Guillemot				2			2
Herring Gull	3	1	4	5	1	12	26
Kestrel	1	1					2
Linnet					20	1	21
Meadow Pipit	7					5	12
<b>Red-throated Diver</b>			3	2	1		6
<b>Redwing</b>			1				1
Sanderling	1				2		3
Skylark	17	14			1	3	35
<b>Snow Bunting</b>	26						26
Starling	26	3	1			130	160
Teal			8				8
Wood Pigeon			5		1	2	8
Yellowhammer	1						1
<b>Totals</b>							
<b>Total Species</b>							<b>24</b>
<b>No. Red Listed</b>							<b>7</b>
<b>No. Amber Listed</b>							<b>11</b>
<b>No. Schedule 1</b>							<b>4</b>



Vantage Point 4

VP4 was located on the cliff top, to the north of Withernsea. Arable farmland was located to the west. It was a field boundary to the south of VP3.

Twenty-one species were recorded, with three Schedule 1, five red and 10 amber listed species.

Red-throated diver was regularly recorded out at sea, snow bunting and Mediterranean gull were also of note.

**Table 20 Summary of Results for Vantage Point 4**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull			1	6	1		8
Common Gull				7	5		12
Great Black-backed Gull		4	2	1	1		8
Guillemot				3			3
Herring Gull	8	5	4	19	17	17	70
Kestrel	1						1
Meadow Pipit	1				1	4	6
Mediterranean Gull					2		2
Red-throated Diver		2	2	8	6		18
Rook						1	1
Shag			1				1
Skylark	3					1	4
Snow Bunting					2		2
Song Thrush					1		1
Starling	1						1
Woodcock		1					1
<b>Totals</b>							
<b>Total Species</b>							<b>21</b>
<b>No. Red Listed</b>							<b>5</b>
<b>No. Amber Listed</b>							<b>10</b>
<b>No. Schedule 1</b>							<b>3</b>



### Vantage Point 5

VP5 was located to the west of Beverley, immediately to the west of the Beverley Racecourse. It was surrounded by arable farmland, grassland and a broad-leaved woodland to the south.

Low levels of activity were recorded from VP5, with 21 species recorded in total. This included one Schedule 1, six red and seven red listed species. There were no specific observations of particular note.

**Table 21 Summary of Results for Vantage Point 5**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull		1	8	5			14
Common Gull		4	52		1		57
Greenfinch						1	1
Herring Gull		4	6				10
House Sparrow						1	1
Kestrel		1					1
Linnet				3			3
Redwing		2	28				30
Skylark					1		1
Song Thrush				1			1
Starling		5			70		75
Wood Pigeon	8	41	5	2	68	2	126
Wren		1	1			1	3
<b>Totals</b>							
<b>Total Species</b>							<b>28</b>
<b>No. Red Listed</b>							<b>6</b>
<b>No. Amber Listed</b>							<b>7</b>
<b>No. Schedule 1</b>							<b>1</b>



Vantage Point 6

VP6 was located to the north of Scarborough, near to the wooded Bryan Mills Beck.

Low activity levels were also recorded at VP6, with 30 species in total, two of which were Schedule 1, seven red and 11 amber listed species.

Small numbers of farmland birds, yellowhammer, tree sparrow and reed bunting were recorded. A red kite was observed on visit 4.

**Table 22 Summary of Results for Vantage Point 6**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull	1		20	18	8	2	49
Common Gull	4	6	26	29	61	48	174
Dunnock			2	1	1	1	5
Greenfinch			1				1
Herring Gull		1	5				6
Kestrel						2	2
Linnet			12	1			13
Meadow Pipit			1				1
Red Kite				1			1
Redwing				1	3		4
Reed Bunting			1				1
Rook		68	3	1	3	2	77
Skylark			6		4	3	13
Starling		13	41				54
Stock Dove		3				4	7
Tree Sparrow						1	1
Wood Pigeon	510	29				1	540
Wren			2	1		2	5
Yellowhammer			17	23		1	41
<b>Totals</b>							
<b>Total Species</b>							<b>30</b>
<b>No. Red Listed</b>							<b>7</b>
<b>No. Amber Listed</b>							<b>11</b>
<b>No. Schedule 1</b>							<b>2</b>



Vantage Point 7

See Transect 10.

Vantage Point 8

See Transect 10.

Vantage Point 9

VP9 was located near Emmotland, on the junction of River Hull and Frodingham Beck.

Forty-nine species were recorded from VP9, four Schedule 1, 10 red and 20 amber listed species.

Small numbers of farmland birds were noted, including corn bunting, reed bunting, tree sparrow, linnet and yellowhammer. Waders were also recorded in low numbers, which included oystercatcher, redshank and lapwing. Marsh harrier was also recorded.

**Table 23 Summary of Results for Vantage Point 9**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull		50	3		2		55
Common Gull	8	79	3		47		137
Corn Bunting						2	2
Fieldfare	2	1	151	26			180
Gadwall						2	2
Greylag Goose			20				20
House Sparrow	1						1
Lapwing					8	7	15
Linnet		14	38				52
Mallard					2	7	9
Marsh Harrier						1	1
Meadow Pipit		1		7		2	10
Mistle Thrush	1						1
Oystercatcher						2	2
Pink-footed Goose						1	1
Redshank					1		1
Redwing			24	2			26
Reed Bunting			1	1	1	1	4
Rook			8			3	11
Skylark						1	1
Snipe				1			1
Song Thrush			1				1
Starling		90	28		1		119
Stock Dove		8	8	3			19
Tree Sparrow						2	2



Whooper Swan		3				1	4
Wigeon					6		6
Wood Pigeon	5	9	57			7	78
Wren	2	3	1	1		1	8
Yellowhammer			1				1
<b>Totals</b>							
<b>Total Species</b>							<b>49</b>
<b>No. Red Listed</b>							<b>10</b>
<b>No. Amber Listed</b>							<b>20</b>
<b>No. Schedule 1</b>							<b>4</b>

### Vantage Point 10

VP10 was located to the north of VP9, further up the Frodingham Beck. It was surrounded by arable farmland and grasslands.

Forty-three species were recorded from VP10, with four Schedule 1, seven red and 20 amber listed species.

Low numbers of wildfowl were recorded, which included whooper swan, gadwall, goldeneye, wigeon, mallard and teal. Low numbers of lapwing and snipe were also recorded. Marsh harrier and kingfisher were recorded on one occasion.

**Table 24 Summary of Results for Vantage Point 10**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull	30	2	4				36
Common Gull			6	1	8		15
Dunnock	1					1	2
Fieldfare			33				33
Gadwall						4	4
Goldeneye					3		3
Greylag Goose			6				6
Herring Gull		1			16		17
Kestrel			1				1
Kingfisher						1	1
Lapwing			1	10			11
Linnet						1	1
Mallard		18			2	4	24
Marsh Harrier				1			1
Meadow Pipit			2			1	3
Moorhen	3		1				4
Pink-footed Goose	1					52	53
Red-breasted Merganser						0	0
Reed Bunting				1	2	4	7
Skylark			2		3	5	10



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Snipe	2			1			3
Starling			32		17		49
Stock Dove				1	1		2
Teal		2		14		4	20
<b>Whooper Swan</b>				5	3		8
Wigeon		7			35		42
Wood Pigeon	3	8		7	80	11	109
Wren	1		1	1		2	5
<b>Totals</b>							
<b>Total Species</b>							<b>43</b>
<b>No. Red Listed</b>							<b>7</b>
<b>No. Amber Listed</b>							<b>20</b>
<b>No. Schedule 1</b>							<b>4</b>

### Vantage Point 11

VP11 was located to the west of VP10, further upstream on the River Hull, to the east of Corpslanding. It was surrounded by grassland, with a large waterbody to the east.

Forty-two species were recorded from VP11, with three Schedule 1, 8 red and 18 amber listed species.

A large cormorant roost was recorded nearby, with low number of wildfowl; gadwall, teal and mallard. Marsh harrier were recorded and barn owl observed using one of the nest boxes.

**Table 25 Summary of Results for Vantage Point 11**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Black-headed Gull	1			7	16		24
Common Gull		2					2
Dunnock		1				2	3
<b>Fieldfare</b>			5				5
Gadwall						2	2
Greenfinch				1			1
Greylag Goose						2	2
Herring Gull				4			4
Kestrel		1	1		1		3
Linnet				4			4
Mallard	2	5	2	9		3	21
<b>Marsh Harrier</b>				3			3
Mistle Thrush	1	2					3
Moorhen	2					2	4
Pink-footed Goose	42						42
<b>Redwing</b>			11	8			19
Reed Bunting		2				3	5



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Skylark					2		2
Song Thrush					1		1
Sparrowhawk		1					1
Starling					9		9
Stock Dove	31				1	1	33
Teal				25	32	3	60
Wood Pigeon	18	1			1	4	24
Wren	4	2	3	1		2	12
Yellowhammer				1			1
<b>Totals</b>							
<b>Total Species</b>							<b>42</b>
<b>No. Red Listed</b>							<b>8</b>
<b>No. Amber Listed</b>							<b>18</b>
<b>No. Schedule 1</b>							<b>3</b>

### Vantage Point 12

VP12 was located to the north of VP10, further up the Frodingham Beck, to the west of Church End. It was surrounded by arable farmland and scrub to the south.

Forty-species were recorded, three of these are listed on Schedule 1, seven red listed and 13 amber listed birds.

Low numbers of farmland birds were recorded, including yellowhammer, linnet, reed bunting and skylark. Barn owl was also recorded.

**Table 26 Summary of Results for Vantage Point 12**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Barn Owl		4					4
Black-headed Gull		8		6	17		31
Common Gull			3	2	1		6
Duncock	2	1	2		1	3	9
Fieldfare				1			1
Greenfinch	16				1	1	18
Greylag Goose			5	2		1	8
Herring Gull	1	56	2	1	2	2	64
Kestrel		2	1		1		4
Linnet	14			40	2	13	69
Redwing				6	9		15
Reed Bunting	1			1		1	3
Rook	1		2			1	4
Skylark	1				1		2
Song Thrush		2			1	1	4
Sparrowhawk	2						2

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Starling			1	5	48	41	95
Stock Dove				1			1
Wood Pigeon	5		60	13	4	11	93
Wren		2	1	1	2	1	7
Yellowhammer		7		6			13
<b>Totals</b>							
<b>Total Species</b>							<b>40</b>
<b>No. Red Listed</b>							<b>7</b>
<b>No. Amber Listed</b>							<b>13</b>
<b>No. Schedule 1</b>							<b>3</b>

### Vantage Point 13

VP13 was located on Kelk Beck, to the north of Transect 7 and east of Nafferton. It was surrounded by arable farmland, with a waterbody and scrub to the north.

Thirty-nine species were recorded, including three Schedule 1, seven red and 14 amber listed species. Low numbers of farmland birds were observed including yellowhammer, linnet, reed bunting and skylark. Marsh harrier was recorded displaying on the final visit.

**Table 27: Summary of Results for Vantage Point 13**

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Barn Owl		1					1
Blackbird		3	3		1		7
Black-headed Gull		4					4
Blue Tit		1		1	1	1	4
Bullfinch						1	1
Buzzard				1	1	1	3
Canada Goose						6	6
Carrion Crow			1	2	4	2	9
Chaffinch	1				2		3
Common Gull						31	31
Cormorant			2		1		3
Duncock	1	1	2	1			5
Goldfinch		1					1
Great Tit				1			1
Greenfinch					1		1
Grey Heron				1			1
Herring Gull				1	2		3
Jackdaw			85	12			97
Kestrel	2						2
Lapwing				130			130
Linnet	30						30



Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Long-tailed Tit		10					10
Magpie				1			1
Mallard						2	2
Marsh Harrier						2	2
Mute Swan			4				4
Pheasant			2	4			6
Redwing			1		2		3
Reed Bunting	3		1		1		5
Robin		1	1	1	1		4
Rook			100	69	6		175
Siskin		6					6
Skylark	1		4		1	2	8
Song Thrush		2			1		3
Starling					1		1
Stock Dove			2		4		6
Wood Pigeon			8	1	152		161
Wren	1	2	1		1	1	6
Yellowhammer	3	1			1		5
<b>Totals</b>							
<b>Total Species</b>							<b>39</b>
<b>No. Red Listed</b>							<b>7</b>
<b>No. Amber Listed</b>							<b>14</b>
<b>No. Schedule 1</b>							<b>3</b>

## **4 EVALUATION**

Whilst the total number of species, and the number/proportion of birds with conservation status provide an indication of the importance of the areas adjacent to the transect, the length of the transect has also been considered, as this could influence the number of species, and individuals, likely to be recorded.

Standard methods for evaluating the importance of bird assemblages relate to a specific site, therefore they are not as relevant for a linear transect where no specific site boundary has been applied. Nonetheless, the Fuller (1980) assessment method provides an indication of the value of an assemblage. In some cases comparisons to designated site selection criteria provide are useful.

### **4.1 Transects**

The diversity of species was generally high across all of the transect routes, the most diverse assemblages were recorded from Transect 3 and Transect 9, both associated with surveyed designated sites, with over 85 species recorded at each. This would be comparable to a site of National Importance. Transect 1 and Transect 8 also had assemblages of over 70, equivalent to Regional Importance. Whilst it did not return a high species diversity, Transect 10, at Tophill Low, supported a large concentration of wetland species.

The highest concentrations of birds, when comparing the number of registrations per kilometre of transect, were recorded at Transect 1 and Transect 3 and then Transect 9, with the lowest concentrations at Transect 4 and Transect 5.

#### **4.1.1 *Transect 1***

Transect 1 recorded one of the highest total species lists for the site, with 73 species recorded. Birds of conservation concern represented 64% of the assemblage. The transect provided the second highest concentration of registrations, when compared to the other transect results. Under the Fuller (1980) assessment tool, an assemblage of over 70 species would qualify as Regionally Important. Whilst 16 wetland species of conservation concern were recorded, which is above that required for County Importance, the numbers indicate that the transect area does not support an assemblage of County Importance, when assessing against the Local Wildlife Site selection criteria.

The records appeared to be relatively evenly distributed across the transect route, predictably, the wetland species were primarily associated with the beach and sea habitats. A wetland area, to the north of the beach also supported wetland species, including water rail.



#### 4.1.2 *Transect 2*

A diverse range of species were recorded from Transect 2, with 70 species in total observed, this would qualify as Regionally Important if it was a discrete site. Birds of conservation concern represented 60% of the assemblage. The transect provided an average concentration of registrations when compared to the other surveyed transects.

Bird activity was concentrated to the farmland areas adjacent to the northern stretch of the transect on the first three survey visits, however, this activity reduced with a high activity level becoming associated with the residential area from December onwards. Of particular interest were the house sparrow and tree sparrow populations in this area.

The beach was subject to disturbance from fisherman and walkers during the survey which was thought to potentially reduce the use of the beach by birds, small wader roosts were however noted.

#### 4.1.3 *Transect 3*

Transect 3 follows the southern boundary of Hornsea Mere SPA, which returned a large and diverse range of species, 87 species in total, in particular wetland birds. It returned the highest concentration of records of all the transects. The mere is designated for its international importance for gadwall, goldeneye, pochard, shoveler and tufted duck. The surveys over the 2021/22 winter period did not record the majority of these birds in the numbers for which they were designated, with the exception of gadwall, however, natural fluctuations occur and the site is likely to still qualify as internationally important. A total of 36 wetland species were recorded (excluding gulls), including species such as long-tailed duck, smew, black-throated diver, black-necked grebe and scaup, and a peak count of 2,484 wetland birds were recorded associated with the site on the November visit. In addition, marsh harrier and Cetti's warbler were recorded across the winter visits.

Away from the water, farmland species such as tree sparrow, yellowhammer, linnet, grey partridge were recorded. Breeding lapwing were also recorded in the arable fields adjacent to the transect.

#### 4.1.4 *Transect 4*

This transect was one of the shortest, at 1km in length, which may account for the lower number of species recorded (47), however, the activity was reported to be generally low across the survey visits, and the average number of registrations per 1km was lower than many of the other transects. Twite and snow bunting recorded on the beach were the most significant observations. Small flocks of waders, including knot, sanderling and ringed plover appeared typical of the area, the low numbers of birds were possibly reduced due to regular disturbance on the beach. Common and herring gull were the most numerous species recorded. Whilst a low number of notable species were recorded in association with Transect 4, the habitats did not appear to be of significant importance to birds.

#### 4.1.5 ***Transect 5***

Transect 5 was another short transect, at approximately 1km long. The survey results were similar to that of Transect 4, which would be predicted given the similar habitats and locations of the two transects. The average number of registrations per 1km was lowest surveyed transects, as was the species diversity (36). Small wader roosts of ringed plover (62 maximum) and knot (26 maximum), were recorded on the beach. A single snow bunting was also recorded on the beach. Common and herring gull were the most numerous species recorded.

Inland, farmland bird species were noted, including yellowhammer and tree sparrow, however these were in low numbers. Whilst a low number of notable species were recorded in association with Transect 5, the habitats did not appear to be of significant importance to birds.

#### 4.1.6 ***Transect 6***

An average concentration of records and species diversity (65) was returned from Transect 6. The open fields adjacent to the transect appeared to be important for foraging wildfowl and waders, in particular pink-footed geese, golden plover and curlew. Mediterranean gulls were also recorded, with 57 recorded on the second visit. Migrant blackbird, redwing and woodcock were noted in early November.

The area also supported good numbers of farmland birds, including tree sparrow, grey partridge, yellowhammer, reed bunting, corn bunting and skylark. Twite was also recorded. Merlin and peregrine were recorded.

Red-throated divers were recorded throughout the winter period, and the typical small waders roosts were noted on the beach.

#### 4.1.7 ***Transect 7***

Low levels of bird activity were recorded from Transect 7, with a lower number of species when compared to other transects. Small numbers of farmland birds, such as tree sparrow and yellowhammer the key features of the assemblage. Peregrine was also noted, in addition to a single migrating marsh harrier on the final visit. The relatively low diversity associated with this transect was likely due to the homogeneity of the habitats present. Concentrations of activity were noted in association with the building structure to the east of the transect and the more wooded areas to the west.

#### 4.1.8 ***Transect 8***

High levels of activity were recorded from Transect 8; this was primarily associated with the river and trout farm to the north of the transect route, where large numbers of cormorant and heron were present. Other notable species included water rail, Cetti's warbler, kingfisher and marsh harrier. The number of species recorded (72) was comparable to a site of Regional Importance.



#### **4.1.9 *Transect 9***

This transect had one of the highest species diversity (86) and concentration of birds of the survey area. It runs adjacent to the Leven Canal SSSI and River Hull, and has associated marshes and lakes, providing habitat for a diverse range of wetland bird species. Water rail and Cetti's warbler were frequently recorded in association with the waterside vegetation, as well as marsh harrier. A record of bittern was notable on the final visit.

Good numbers of waders were recorded, including a roost of redshank, and territorial lapwing on the later visits. Snipe and golden plover were also recorded. A large flock of over 2,000 pink-footed geese were noted on one occasion. Wildfowl recorded included large numbers of teal, and notable numbers of goldeneye using the High Eske lakes.

The diversity and number of birds associated with Transect 9 is a reflection of the habitat types present, namely the watercourses/waterbodies and associated farmland and marsh habitats. This general area is clearly important for wintering birds, and is likely to be important for breeding as well.

#### **4.1.10 *Transect 10***

Transect 10, formerly VPs 7 and 8, incorporated the two reservoirs of Tophill Low SSSI, which is designated for its importance for wintering wildfowl, in particular gadwall, shoveler and tufted duck.

The assemblage of birds recorded at the site reflects its designation, with peak counts of coot (535), goldeneye (22), pochard (169), shoveler (87), teal (438), tufted duck (166) and wigeon (336). In addition, smew, red-crested pochard and water rail were recorded. Waders, lapwing and redshank were recorded in the nearby habitats, in addition to small numbers of curlew.

Surveys were not possible of this site after the January, due to maintenance works, however, the results of the first four visits has provided sufficient information to ascertain the value of the site for birds, in particular given its designation.

## **4.2 *Vantage Points***

The majority of the vantage points recorded low levels of activity, however some species of note, such as marsh harrier, barn owl, peregrine and snow bunting were recorded. Vantage points VP9, VP10 and VP11 provided the highest species diversity, followed by VP12 and VP13. Vantage points VP1-4 had the lowest species diversity. The paragraphs below detail the key results for each VP survey.

### **4.2.1 *Vantage Point 1***

Low levels of activity were recorded from VP1, red-throated divers were noted on the sea, and small numbers of sanderling and oystercatcher on the beach. Common and herring gull, and starling were the most numerous species recorded, which is typical of the coastline. The area of VP1 did not appear to support a significant assemblage of birds.

### **4.2.2 *Vantage Point 2***

In similarity to VP1, low levels of activity was recorded at VP2, however there were notable records of peregrine and snow bunting. Farmland birds, yellowhammer and tree sparrow were

recorded inland in small numbers. The area of VP2 did not appear to support a significant assemblage of birds.

#### **4.2.3 Vantage Point 3**

Goldeneye, guillemot and red-throated diver were the records of most note, with barn owl observed inland. Other species recorded were typical of the habitats. The area of VP3 did not appear to support a significant assemblage of birds.

#### **4.2.4 Vantage Point 4**

Low levels of activity were recorded from VP4, red-throated diver and guillemot were recorded on the sea. Mediterranean gull and snow bunting were also recorded. The highest number of birds were those of herring gull. The area of VP4 did not appear to support a significant assemblage of birds.

#### **4.2.5 Vantage Point 5**

A typical assemblage of species was recorded from VP5, there were no particularly high concentrations of birds noted or notable species, other than a low number of red listed species.

#### **4.2.6 Vantage Point 6**

A single red kite and low numbers of farmland birds, yellowhammer and tree sparrow were recorded, otherwise the assemblage was typical consisting of primarily widespread species.

#### **4.2.7 Vantage Point 7 & 8**

The results for these vantage points are incorporated within Transect 10 above.

#### **4.2.8 Vantage Point 9**

Farmland specialist bird species, corn bunting, yellowhammer, tree sparrow, linnet and reed bunting were recorded, indicating a higher quality habitat for farmland birds. A large flock of over 2000 common gull was noted on the second visit. Territorial lapwing were observed in later visits and marsh harrier. The species recorded indicates that the area has value for priority species.

#### **4.2.9 Vantage Point 10**

Large numbers of common and black-headed gulls were recorded, however wildfowl numbers were low, these included whooper swan and goldeneye. Marsh harrier and kingfisher were of note.

#### **4.2.10 Vantage Point 11**

Numbers of wildfowl recorded were generally low and including wigeon, teal and whooper swan, however a maximum count of 48 mute swans was recorded on visit 4. Whilst not recorded at the VP, a large cormorant roost was nearby. Marsh harrier and barn owl were recorded.

#### **4.2.11 Vantage Point 12**

Birds of note included barn owl and farmland birds.



#### 4.2.12 ***Vantage Point 13***

Activity was generally low, however farmland birds and barn owl were noted, in addition to displaying marsh harrier on the final visit.

## **5 CONCLUSIONS AND RECOMMENDATIONS**

Due to the extent of the Onshore Search Area at the time of the 2021/2022 OWB survey effort, it is not possible to provide a detailed impact assessment at this time, however a further OWB survey will be undertaken 2022/2023 of the refined onshore survey area, the findings of which will be used to inform the EclA.

High numbers of birds were noted to be supported at Transect 1, 3 and 9 these transects are on/near to designated sites and should be avoid on this basis. The refined proposed routes are not in the vicinity of these sites, and therefore should not impact upon them, however, should this change, it is recommended that these sites are given as wide a buffer as possible. No specific recommendations are considered necessary for the remaining transects and VPs, in terms of over-wintering birds.

Any sections of hedgerow which are removed should be replaced, as a minimum, like for like. Similarly, any loss of other habitats which support foraging birds, such as cover crop areas, or arable field margins, should be reinstated. It may be advisable to implement measures to reduce disturbance in areas where there are high concentrations of birds foraging or roosting, such as arable fields used by flocks of geese or waders. Nocturnal surveys may aid the identification of which fields are important for species which forage at night, such as golden plover and lapwing. These species tend to feed only at night, roosting during the day, therefore, whilst their location during daylight hours may give an indication as to which fields are used at night, this may not be an accurate representation of which fields are important for foraging.

Careful timing of works may be necessary in areas which provide important habitat for both wintering and breeding birds, such as the marshlands adjacent to the Leven Canal, disturbance to such habitats should avoid the months of March to August (breeding), and November to February (wintering).



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APPENDICES

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## APPENDIX A: Protected and Priority Species

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

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

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

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

- a) These terms were previously used to denote those habitats and species afforded the highest level of priority for conservation under the UK BAP; this has been superseded by the lists of habitats and species of principal importance for the conservation of biodiversity in England under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006, Section 7 of the Environment (Wales) Act 2016, or their equivalents in Scotland (Nature Conservation (Scotland) Act 2004, Scotland's Biodiversity Strategy and the Scottish Biodiversity List<sup>15</sup>) and Ireland (Actions for Biodiversity – Ireland's National

Biodiversity Plan 2017 -2021 16; and Valuing Nature – A Biodiversity Strategy for Northern Ireland to 2020).

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



## APPENDIX B: Relevant Legislation

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

The main wildlife legislation in the UK is as follows:

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

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

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

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

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

- The Countryside and Rights of Way Act 2000 (CRoW)

This act strengthens wildlife enforcement legislation.

- The Protection of Badgers Act 1992

### Species-Specific Legislation

Species specific legislation is provided in the Table below:

#### Species-Specific Wildlife Legislation

Feature/Species	Legislation	It is an offence to:
Breeding birds	Wildlife and Countryside Act 1981 (as amended). Countryside and Rights of Way Act 2000.	<ul style="list-style-type: none"> <li>○ Kill;</li> <li>○ Injure;</li> <li>○ Take;</li> </ul> any wild bird, their eggs or nest (with the exception of those on Sch. 2).
Specially protected birds	Sch. 1 Wildlife and Countryside Act 1981 (as amended).	As above but includes: <ul style="list-style-type: none"> <li>○ Disturbing birds at their nest, or their dependent young.</li> </ul>

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

## **Protected Sites**

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

### ***International importance***

- Natura 2000

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

- Special Areas of Conservation (SAC)

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

### ***National importance***

- SSSI

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

### ***Regional/local importance***

- Wildlife Sites



Local authorities for any given area may designate certain areas as being of local conservation interest. The criteria for inclusion, and the level of protection provided, if any, may vary between areas. Most individual counties have a similar scheme, although they do vary. These sites, which may be given various titles such as 'Listed Wildlife Sites' (LWS), 'County Wildlife Sites' (CWS), 'Local Nature Conservation Sites' (LNCS), 'Sites of Importance for Nature Conservation' (SINCs), or 'Sites of Nature Conservation Importance' (SNICIs), together with statutory designations, are defined in local and structure plans under the Town and Country Planning system and are a material consideration when planning applications are being determined.

### APPENDIX C: Survey Visit Details

Survey Visit	Transect	Date	Surveyor	Survey period	Tide Times (where applicable)	Weather and Conditions
Visit 1	T1	26/10/21	CB/CS	0755 - 1130	Hornsea HT: 0823	Dry, 9°C, SW3-4, cloud 8/8, vis 5km+.
	T2	27/10/21	CB/CS	0815 - 1200	Hornsea HT: 0912	Dry with a rain shower at 1100, 14°C, SW4-5, cloud 7/8, vis 5km+.
	T3 (1)	29/10/21	CB/CS	0741 - 1309	Hornsea HT: 1110	Intermittent rain showers, 13°C, S4-5, cloud 8/8, vis 3km+
	T3 (2)	04/11/21	CB/CS	0720-1010	Hornsea HT: 1552	Dry with a light rain shower at 0930, 8°C, N4-5, cloud 8/8, vis 3km
	T4	05/11/21	CB/CS	0700-0821	Withernsea HT: 1627	Dry, 3°C, W2-3, cloud 1/8, vis 3km+
	T5	05/11/21	CB/CS	0840 - 0935	Withernsea HT: 1627	Dry, 5°C, W3, cloud 2/8, vis 3km+
	T6	03/11/21	CB/CS	0700-1135	Withernsea HT: 1508	Intermittent rain until 0945, 6°C - 9°C, NW 3-4, cloud 7/8, vis 3km+
	T7	28/10/21	CB/CS	1138-1300	Withernsea HT: 1010	Dry, 15°C, S5, cloud 7/8, vis 5km+
	T8	28/10/21	CB/CS	0745-1045	Withernsea HT: 1010	Dry, 13°C, S5, cloud 3/8 to 6/8, vis 5km+
	T9 (1)	2/11/21	CB/CS	0700-1115	Hornsea HT: 1432	Dry, 3°C, WSW2-3, cloud 2/8, vis 3km+
	T9 (2)	1/11/21	CB/CS	0700-1225	Hornsea HT: 1348	Light rain before 0900 and 1100, 9°C, SW5, cloud 8/8, vis 3km+
	T10					<b>See VPs 7 and 8</b>
	VP1	5/11/21	CB/CS	1142-1147	Withernsea HT: 1627	Dry, 5°C, W3-4, cloud 3/8, vis 3km+
	VP2	5/11/21	CB/CS	1230-1245	Withernsea HT: 1627	Dry, 9°C, W3-4, cloud 7/8, vis 3km+
	VP3	5/11/21	CB/CS	1015-1030	Withernsea HT: 1627	Dry, 5°C, W3-4, cloud 4/8, vis 3km+
	VP4	5/11/21	CB/CS	0951-1006	Withernsea HT: 1627	Dry, 5°C, W3-4, cloud 4/8, vis 3km+
	VP5	2/11/21	CB/CS	1211-1226	Hornsea HT: 1432	Dry, 9°C, W3, cloud 2/8, vis 3km+
	VP6	4/11/21	CB/CS	1100-1115	Hornsea HT: 1552	Light rain, 8°C, NNW4, cloud 8/8 - 4/8, vis 3km+
	VP7	8/11/21	CB/CS	1313- 1328	Bridlington HT: 0619	Dry, 11°C, SW2, cloud 5/8, vis 3km+
	VP8	8/11/21	CB/CS	1155- 1210	Bridlington HT: 0619	Dry, 10°C, W2-5, cloud 1/8, vis 3km+
VP9	8/11/21	CB/CS	0908- 0923	Bridlington HT: 0619	Dry, 6°C, W1, cloud 5/8, vis 3km+	
VP10	08/11/21	CB/CS	0835- 0850	Bridlington HT: 0619	Dry, 6°C, W1, cloud 5/8, vis 3km+	



Survey Visit	Transect	Date	Surveyor	Survey period	Tide Times (where applicable)	Weather and Conditions
	VP11	8/11/21	CB/CS	0734- 0749	Bridlington HT: 0619	Dry, 4°C, W1, cloud 6/8, vis 3km+
	VP12	8/11/21	CB/CS	1048- 1103	Bridlington HT: 0619	Dry, 9°C, W1, cloud 3/8, vis 3km+
	VP13	26/10/21	CB/CS	1238-1253	Hornsea HT: 0823	Dry, 9°C, SW4-5, cloud 7/8, vis 3km+
Visit 2	T1	16/11/21	CB/CS	0720- 1130	Bridlington HT: 1457	Dry, 8°C, SW2-3, cloud 8/8, vis 2km+
	T2	17/11/12	CB/CS	0825- 1202	Bridlington HT: 1532	Dry, 6°C, W3-4, cloud 3/8, vis 3km+
	T3 (1)	18/11/12	DP/CSi	0800- 1200	Bridlington HW: 1604	Dry, 12-14°C, SW3-4, cloud 6/8-4/8, vis 3km+
	T3 (2)					<b>Discontinued, due to H&amp;S issues of walking along the road</b>
	T4	24/11/21	CB/CS	1110-1211	Withernsea HT: 0805	Dry, 7°C, W3, cloud 6/8, vis 3km+
	T5	24/11/21	CB/CS	0918-0955	Withernsea HT: 0805	Dry, 7°C, WSW3, cloud 6/8, vis 3km+
	T6	19/11/21	DP/CSi	0800-1145	Spurn Head HT: 1127	Dry, 11-13°C, SW3, cloud 2/8, vis 3km+
	T7	18/11/21	CB/CS	0730-0910	Bridlington HT: 1604	Dry, 11°C, W4, cloud 8/8-7/8, vis 3km+
	T8	18/11/21	CB/CS	0937-1210		Dry, 11-16°C, W4-5, cloud 4/8, vis 5km+
	T9 (1)	23/11/21	PR	0815-1200	Hornsea HT: 0609	Dry, 1°C, W2, cloud 1/8-8/8, vis 3km+
	T9 (2)	22/11/21	CB/CS	0738-0753	Hornsea HT: 0739	Dry, 3°C, WNW3, cloud 1/8,
	T10	25/11/21	RR	1040-1300		Dry, 3°C, W3, cloud2/8, vis 5km+
	VP1	24/11/21	PR	0810-0835	Withernsea HT: 0805	Dry, 6°C, SW3, cloud 5/8, vis 3km+
	VP2	24/11/21	CS/CB	0730-0745	Withernsea HT: 0805	Dry, 6°C, SW3, cloud 8/8, vis 3km+
	VP3	24/11/21	CS/CB	1030-1045	Withernsea HT: 0805	Dry, 7°C, W3, cloud 5/3, vis 3km+
	VP4	24/11/21	CS/CB	1007-1022	Withernsea HT:0805	Dry, 7°C, W3, cloud 6/8, vis 3km+
	VP5	23/11/21	PR	0737-0752	HT: 0812	Dry, 1°C, WNW1, cloud0/8, vis 3km+
VP6	25/11/21	CB/CS	1321-1336		Dry, 7°C, WNW3, cloud 4/8, vis 5km+	
VP9	25/11/21	CB	0738-0753	Hornsea HT:0739	Dry, 3°C, WNW3, cloud 1/8, vis 5km+	

Survey Visit	Transect	Date	Surveyor	Survey period	Tide Times (where applicable)	Weather and Conditions
	VP10	25/11/21	CB/CS	0815-0830	Hornsea HT: 0739	Dry, 3°C, WNW2, cloud 2/8, vis 5km+
	VP11	25/11/21	CS/CB	0912-0927		Dry, 3°C, WNW2, cloud 3/8, vis 5km+
	VP12	17/11/21	CB	0725-0740	Bridlington HT: 1532	Dry, 6°C, W2-3, cloud 4/8, vis 3km+
	VP13	17/11/21	CB	0725-0740	Bridlington HT: 1532	Dry, 6°C, W2-3, cloud 4/8, vis 3km+
Visit 3	T1	09/12/21	CB/CH	0750-1055	Bridlington HT: 0810	Dry, 2°C, W2-3, cloud 0/8-3/8, vis 3km+
	T2	10/12/21	CB/CH	0750-1105	Bridlington HT:0913	Dry, 3°C, WNW4, cloud 4/3, vis 3km+
	T2 (2)	03/03/22	CB/DS	0700-1045	Bridlington HT 0502	Dry, 7°C, SE4, cloud 8/8, vis 3km+
	T3 (1)	09/12/21	DMP	0800-1200	Bridlington HW: 0810	Dry, 5-6°C, cloud 0/8-4/8, vis 3km+
	T3 (2)	22/02/22	CB/DS	0720-1045	HT: 0759	Dry, 7°C, SW5, cloud 7/8-3/8-8/8, vis 3km+
	T4	14/12/21	DMP	1055-1155	HW: 1435	Dry, 8°C, W3, cloud 8/8, vis 3km+
	T5	14/12/21	DMP	0945-1020	HW: 1435	Dry, 7°C, W2, cloud 8/8, vis 3km+
	T6 (1)	15/12/21	DMP	0845-1130	HW: 1521	Dry, 10°C, W2, cloud 0/8, vis 3km+
	T6 (2)	23/12/22	CB/DS	0720-1135	HT: 1004	Dry, 4°C, SW4, cloud 2/8, vis 5km+
	T7	17/12/21	CS/CB	1100-1225	Bridlington HW:1538	Dry, 2°C, WNW1, cloud 2/8, vis 5km+
	T8	17/12/21	CB/CF	0755-1040	Bridlington HT:1538	Frost, -2°C, WNW1-2, cloud 0/8-2/8, vis 5km+
	T9 (1)	16/12/21	CB/CF	0800-1130	Hornsea HT:1448	Dry, 2°C, WNW2, cloud 0/8, vis 3km+
	T9 (2)	15/12/21	CB/CF	0800-1230	Hornsea HT:1409	Dry, 8°C, SW 3-4, cloud 2/8, vis 3km+
	T10	20/12/21	RR	0940-1215	Hornsea HT: 0454	Dry, 7°C, ENE1, cloud 8/8, vis 3km+
	VP1	14/12/21	DMP	1245-1300	HW:1435	Dry, 8°C, W2, cloud 4/8, vis 3km+
	VP2	14/12/21	DMP	1330-1345	HW: 1435	Dry, 8°C, W2, cloud 4/8, vis 3km+
VP3	14/12/21	DMP	0850-0905	HW: 1435	Dry, 7°C, W2, cloud 8/8, vis 1km+	
VP4	14/12/21	DMP	0820-0835	HW: 1435	Dry, 7°C, W2, cloud 8/8, vis 1km+	



Survey Visit	Transect	Date	Surveyor	Survey period	Tide Times (where applicable)	Weather and Conditions	
	VP5	20/12/21	CB/DS	0815-0830	Hornsea HT:0454	Dry, 5°C, ENE2, cloud 8/8, vis 3km+	
	VP6	20/12/21	CB/DS	0852-0907	Hornsea HT:0454	Dry, 5°C, ENE1, cloud 8/8, vis 3km+	
	VP7	See Transect 10.					
	VP8						
	VP9	21/12/21	CB/DS	0950-1005	Bridlington HT: 0536	Dry, 5°C, cloud 8/8, vis 5km+	
	VP10	21/12/21	CB/DS	0915-0930	Bridlington HT: 0536	Dry, 5°C, cloud 8/8, vis 5km+	
	VP11	21/12/21	CB/DS	0815-0830	Bridlington HT: 0536	Dry, 5°C, cloud 8/8, vis 3km+	
	VP12	21/12/21	CB/DS	1055-1110	Bridlington HT: 0536	Dry, 5°C, SW2, cloud 8/8, vis 5km+	
	VP13	09/12/21	CB/CH	1130-1145	Bridlington HT: 0810	Dry, 5°C, W3, cloud 6/8, vis 5km+	
	Visit 4	T1	11/1/22	CB/CS	0800-1120	Bridlington HT: 1137	Dry, 7°C, NWW2,, cloud 8/8, vis 3km+
		T2	12/1/22	CB/CS	0922-1235	HT: 0620	Dry, 3°C, SW3, cloud 8/8, vis 3km+
		T3	21/1/22	DMP/CH	0830-1110	HW: 0632	Dry, 3-5°C, W2, cloud 0/8, vis 3km+
		T4	20/01/22	DMP/CH	1045-1145	HW: 0658	Dry, 3°C, NW4, cloud 7/8, vis 3km+
T5		20/01/22	DMP/CH	0940-1025	HW: 0658	Dry, 3°C, NW4, cloud 7/8, vis 3km+	
T6		19/01/22	DMP/CH	0830-1200	HW: 0622	Dry, -7°C, W5, cloud 5/8-1/8, vis 3km+	
T7		25/01/22	CB/NG	1045-1230	Bridlington HT: 0934	Drizzle, 2°C, WSW3, cloud 8/8, vis 3km+	
T8		27/21/22	CB/NG	0810-1045	Bridlington HT: 1142	Dry, 8°C, W3, cloud 4/8-2/8, vis 5km+	
T9 (1)		13/01/22	PR	0800-1209	Hornsea HT 1417	Dry, 0°C, SW3, cloud 0/8, vis 5km+	
T9 (2)		13/01/22	CS/CB	0805-1245	Hornsea HT: 1326	Dry, 3°C, W3, cloud 1/8, vis 3km+	
T10		25/01/22	CB/NG	0910-1020		Dry, 1°C, WSW2, cloud 8/8, vis 3km+	
VP1		20/01/22	DMP/CH	1245-1300	HW: 0685	Dry, 3°C, NW3, cloud 6/8, vis 3km+	
VP2		20/01/22	DMP/CH	1325-1340	HT: 0658	Dry, 4°C, NW4, cloud 7/8, vis 3km+	
VP3		20/01/22	DMP/CH	0855-0910	HW: 0658	Dry, 3°C, W3, cloud 7/8, vis 3km+	

Survey Visit	Transect	Date	Surveyor	Survey period	Tide Times (where applicable)	Weather and Conditions	
	VP4	20/01/22	DMP/CH	0830-0845	HW: 0658	Dry, 3°C, NW3, cloud 7/8, vis 3km+	
	VP5	25/01/22	CB/NG	0800-0815	Hornsea HT: 0919	Dry, 1°C, cloud 8/8, vis 2km+	
	VP6	25/01/22	CB/NG	0840-0855	Hornsea HT: 0919	Dry, 2°C, WSW2, cloud 8/8, vis 3km+	
	VP7	See Transect 10					
	VP8						
	VP9	26/01/22	CB/NG	0940-0955	Bridlington HT: 1035	Dry, 3°C, SW3, cloud 1/8, vis 5km+	
	VP10	26/01/22	CB/NG	0900-0915	Bridlington HT: 1035	Dry, 1°C, WSW3, cloud 1/8, vis 5km+	
	VP11	26/01/22	CB/NG	1105-1120	Bridlington HT: 1035	Dry, 4°C, SW3, cloud 7/8, vis 5km+	
	VP12	26/01/22	CB/NG	0805-0820	Bridlington HT: 1035	Dry, 1°C, WSW3, cloud 1/8, vis 5km+	
	VP13	12/01/21	KY	0831-0846	Bridlington HT 1242	Dry, 3°C, SSW3, cloud 4/8, vis 4km+	
	Visit 5	T1	8/2/22	CB/CF	0750-1120	HT: 0937	Dry, 12°C, SW3, cloud 8/8, vis 3km+
		T2	09/02/22	CB/CF	0900-1210	Bridlington HT: 1030	Dry, 8°C, SW4, cloud 3/8, vis 5km+
		T3	22/02/22	CB/DS	0720-1045	HT: 0759	Showers, 7°C, SWW4, cloud 7/8-3/8-8/8, vis 3km+
T4		24/02/22	CB/NG	0915-1020	Withernsea HT: 1056	Dry, 6°C, WNW4, cloud 8/8, vis 3km+	
T5		24/02/22	CB/NG	0820-0900	Withernsea HT: 1056	Dry, 7°C, WSW4, cloud 3/8, vis 3km+	
T6		23/02/22	CB/DS	0720-1135	HT: 1004	Dry, 4°C, SW4, cloud 2/8, vis 5km+	
T7		01/03/22		0700-0840	Bridlington HT: 1544	Dry, 3°C, NW4, cloud 1/8-3/8, vis 3km+	
T8		01/03/22	CB/CS	0905-1128	HT: 1544	Dry, 4°C, NW4, cloud 1/8, vis 5km+	
T9 (1)		10/02/22	CB/CF	0730-1140	Hornsea HT: 1235	Dry, 7°C, WSW4, cloud 3/8, vis 5km+	
T9 (2)		10/02/22	CB/CF	0735-1225	Hornsea HT: 1116	Dry, 2°C, WSW4, cloud 2/3-3/8, vis 5km+	
T10		No access					
VP1	24/02/22	CB/NG	1158-1213	Withernsea HT: 1056	Dry, 3°C, W5, cloud 2/8, vis 5km+		



Survey Visit	Transect	Date	Surveyor	Survey period	Tide Times (where applicable)	Weather and Conditions	
	VP2	24/02/22	CB/NG	1115-1130	Withernsea HT: 1056	Dry, 3°C, WSW4, cloud 1/8, vis 3km+	
	VP3	24/02/22	CB/NG	0745-0800	Withernsea HT: 1056	Dry, 6°C, WSW4, cloud 3/8, vis 5km+	
	VP4	24/02/22	CB/NG	0722-0737	Withernsea HT: 1056	Dry, 6°C, WSW4, cloud 3/8, vis 5km+	
	VP5	25/02/22	CB/NG	1127-1142	Hornsea HT: 1131	Dry, 9°C, W4, cloud 1/8, vis 5km+	
	VP6	25/02/22	CB/NG	1035-1108	Hornsea HT: 1131	Dry, 7°C, W5, cloud 1/8, vis 5km+	
	VP7	See Transect 10					
	VP8						
	VP9	25/02/22	CB/NG	0913-0928	Bridlington HT: 1110	Dry, 6°C, W5, cloud 0/8, vis 5km+	
	VP10	25/02/22	CB/NG	0840-0855	Bridlington HT: 1110	Dry, 6°C, W4, cloud 0/8, vis 5km+	
	VP11	25/02/22	CB/NG	0735-0750	Bridlington HT:1110	Dry, 4°C, W4	
	VP12	25/02/22	CB/NG	1010-1025	Bridlington HT 1110	Dry, 4°C, W5, cloud 0/8, vis 5km+	
	VP13	09/02/22	CB/CF	0757-0812	Bridlington HT: 1030	Dry, 8°C, SW4, cloud 3/8, vis 5km+	
	Visit 6	T1	02/03/22	CB/CS	0650-1015	Bridlington HT: 0420	Dry, 6°C, EW4, cloud 8/8, vis 3km+
T2		03/03/22	CB/DS	0700-1045	Bridlington HT: 0502	Dry, 7°C, SEW4, cloud 8/8, vis 3km+	
T3		10/03/22	CB/CP	0645-1100	Hornsea HT: 0925	Dry, 8-15°C, SEW4, cloud 2/8, vis 5km+	
T4		22/03/22	CB/MCP	0828-0945	Hornsea HT: 0713	Dry, 11°C, ESEW2, cloud 1/8, vis 3km+	
T5		22/03/22	CB/MCP	0955-1045	Withernsea HT: 0649	Dry, 12°C, ESW3, cloud 1/8, vis 3km+	
T6		23/03/22	CB/MCP	0655-1100	Withernsea HT: 0900	Dry, 5-12°C, EW2, cloud 0/8, vis 1km+	
T7		25/03/22	CB/MCP	1015-1145	Bridlington HT: 0929	Dry, 15°C, cloud 0/8, vis 3km+	
T8		25/03/22	CB/MCP	0630-1006	Bridlington HT: 0929	Dry, 3°C, cloud 1/8, vis 3km+	
T9 (1)		09/03/22	CB/CP	0655-1040	Hornsea HT: 0831	Dry, 8°C, SEW4, cloud 0/8, vis 5km+	
T9 (2)		08/03/22	CB/CP	0655-1210	Hornsea HT: 0756	Dry, 3°C, SEW4, cloud 0/8, vis 5km+	

Survey Visit	Transect	Date	Surveyor	Survey period	Tide Times (where applicable)	Weather and Conditions
	T10	No access.				
	VP1	22/03/22	CB/MCP	0652-0707	Hornsea HT: 0713	Dry, 7°C, ESEW2, cloud 1/8, vis 3km+
	VP2	22/02/22	CB/MCP	0730-0745	Hornsea HT: 0713	Dry, 7°C, ESEW2, cloud 1/8, vis 3km+
	VP3	22/03/22	CB/MCP	1122-1137	Withernsea HT: 0649	Dry, 13°C, ESSEW3, cloud 0/8, vis 5km+
	VP4	22/03/22	CB/MCP	1058-1113	Withernsea HT: 0649	Dry, 12°C, ESEW3, cloud 1/8, vis 3km+
	VP5	24/03/22	CB/MCP	1125-1140	Hornsea HT: 0819	Dry, 16°C, SEW2, cloud 0/8, vis 3km+
	VP6	24/03/22	CB/MCP	1050-1105	Hornsea HT: 0819	Dry, 18°C, cloud 0/8, vis 3km+
	VP7	See Transect 10.				
	VP8					
	VP9	24/03/22	CB/MCP	0855-0913	Bridlington HT: 0828	Dry, 10°C, cloud 0/8, vis 2km+
	VP10	24/03/22	CB/MCP	0815-0830	Bridlington HT: 0828	Dry, 10°C, cloud 0/8, vis 2km+
	VP11	24/03/22	CB/MCP	0710-0725	Bridlington HT: 0828	Dry, 6°C, cloud 0/8, vis 1km+
	VP12	24/03/22	CB/MCP	1000-1015	Bridlington	Dry, 6°C, cloud 0/8, vis 3km+
	VP13	02/03/22	CB/CS	1052-1107	Bridlington HT: 0420	Dry, ESEW4, cloud /8, vis 3km+



## APPENDIX D: Full species lists

### Transects

#### Transect 1

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird		16	7	10	15	4	52
Black-headed Gull	149	93		81	56	32	411
Blue Tit		2		1	1		4
Buzzard			2				2
Carrion Crow	72	31	59	6	17	9	194
Chaffinch		6	3	2	1	5	17
Chiffchaff	1						1
Coal Tit	2						2
Collared Dove	7						7
Common Gull	78	250	99	237	666	238	1568
Common Scoter		3					3
Cormorant	44	10	63	12	9		138
Corn Bunting			14	42	2		58
Dunlin			1	9		11	21
Dunnock		2	1	2		1	6
Fieldfare		4				18	22
Gannet		1					1
Golden Plover		2			1		3
Goldfinch	40	13	5		37	6	101
Great Black-backed Gull	1	10	1		3	2	17
Great Crested Grebe		2	10	64	4		80
Great Northern Diver		1					1
Great Tit	2	1				2	5
Greenfinch	2	2	4		6	8	22
Grey Heron		1					1
Grey Partridge		16		6	4	2	28
Grey Plover			4	11	9		24
Grey Wagtail	1						1
Greylag Goose		1					1
Herring Gull	314	32	122	65	63	78	674
House Sparrow			6		4	2	12
Jackdaw	46	2	53	108	117	37	363
Kestrel	1	3	3	1		1	9
Kittiwake					1		1
Knot	3	4					7
Lapland Bunting		1	1		1		3
Lapwing		2			1		3

Linnet		29	8	26	46	22	131
Long-tailed Tit				6			6
Magpie	1	2		2		1	6
Mallard			14	2		2	18
Meadow Pipit	8	3	1	6	2		20
Mistle Thrush				1			1
Oystercatcher			14				14
Pheasant	29	42	4	4	2	1	82
Pied Wagtail	4	2	1	9	9	12	37
Pink-footed Goose	121	4					125
Red-legged Partridge		27		1		3	31
Red-throated Diver	1	5		3	3		12
Redwing		1	8				9
Reed Bunting	20	16	10	4	8	7	65
Ringed Plover	48		40	51		38	177
Robin		5	2	2	2		11
Rook	92	19	79	140	145	14	489
Sanderling	3	10	67	7		74	161
Short-eared Owl				1			1
Shoveler						1	1
Siskin	61	29					90
Skylark	23	12	14		31	12	92
Snipe	5	1					6
Song Thrush		2	3		1		6
Sparrowhawk		1					1
Starling	111	1413	54	270	58	14	1920
Stock Dove	2	3					5
Stonechat		2	2	1			5
Teal			10		4	6	20
Tree Sparrow	8	5		12	27		52
Turnstone		8	6				14
Water Rail		3	1	2	2		8
Wigeon			11				11
Wood Pigeon	9	41	26		2177	34	2287
Wren	3	11	4	2	2	1	23
Yellowhammer	10	13	19	3	98	40	183
<b>Totals</b>							
<b>Total Species</b>							<b>73</b>
<b>No. Red Listed</b>							<b>17</b>
<b>No. Amber Listed</b>							<b>29</b>
<b>No. Schedule 1</b>							<b>5</b>



Transect 2

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird	3	10	22	10	5	19	69
Black-headed Gull	162	105			1		268
Blue Tit		4	6	15	3	5	33
Bullfinch		2	4				6
Buzzard		1	3	1			5
Carrion Crow	8	22	21	16	11	11	89
Chaffinch	2	5	6	8	1	9	31
Coal Tit	1	1		1	1	1	5
Collared Dove	4		1	2		1	8
Common Gull	244	400	13	1	20	41	719
Common Sandpiper	2						2
Cormorant	1	11	1	6			19
Dunlin				7	6		13
Dunnock	2	4	5	4	1	10	26
Fieldfare			1	9		32	42
Goldcrest	1						1
Golden Plover		1					1
Goldfinch	23	10		15	9	24	81
Great Black-backed Gull		2			1	18	21
Great Crested Grebe			1		2		3
Great Tit	3	2	2	1	1	2	11
Greenfinch	2	2	18	4	7	4	37
Grey Heron						1	1
Grey Partridge	21	22	25	14	6	7	95
Herring Gull	255	111	14	23	55	139	597
House Sparrow	4	28	23	11	37	26	129
Jackdaw	2	15	211	30	40	2	300
Jay	1						1
Kestrel	1	2	2	1	1		7
Linnet	86	52	20	49	47	97	351
Long-tailed Tit		7	2				9
Magpie	5	3	9	8	4	11	40
Mallard		4	1	7	5	34	51
Meadow Pipit	7	2		1	1	4	15
Mediterranean Gull	1						1
Mistle Thrush		2		1		2	5
Moorhen	1	8	9	7	5	4	34
Pheasant	4	1	1			3	9
Pied Wagtail		1		4	5	3	13
Pink-footed Goose	608	49		1	1		659

<b>Purple Sandpiper</b>				1			1
Red-legged Partridge					2		2
Red-throated Diver			1	1	1	1	4
<b>Redwing</b>			2				2
Reed Bunting	8	9	1	2	4	12	36
Ring Ouzel						1	1
<b>Ringed Plover</b>				68	46	1	115
Robin	5	4	6	3	5	6	29
Rock Pipit	2						2
Rook	20	36	140	24		20	240
<b>Sanderling</b>				9	51		60
Shelduck	30					1	31
Siskin	71	34				1	106
<b>Skylark</b>	43	62	11	1	14	25	156
<b>Snow Bunting</b>						4	4
Song Thrush			1	1	1	4	206
Sparrowhawk	1						1
<b>Starling</b>	1013	95	36	21	21	8	1194
Stock Dove		3	18	4		4	29
Stonechat		3	1	1	2		7
Teal			4	1			5
<b>Tree Sparrow</b>	4	2	4	9	23	7	49
Turnstone	6	1		9			16
Water Rail		1					1
<b>Whooper Swan</b>	6						6
Wigeon				161			161
Wood Pigeon	109	241	67	85	90	38	630
<b>Woodcock</b>		1					1
Wren	5	9	9	2	3	4	32
<b>Yellowhammer</b>	9	22	3			6	40
<b>Totals</b>							
<b>Total Species</b>							<b>70</b>
<b>No. Red Listed</b>							<b>17</b>
<b>No. Amber Listed</b>							<b>25</b>
<b>No. Schedule 1</b>							<b>5</b>



Transect 3

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Barnacle Goose	140	215	150			1	506
Blackbird	7	4	11	11	14	20	67
Blackcap	1						1
Black-headed Gull	540	69	31	113	48	90	891
Black-necked Grebe						1	1
Black-throated Diver				190			190
Blue Tit	21	3	2	3	11	23	63
Brambling					2	1	3
Brent Goose	11					1	12
Bullfinch	2	2	1			2	7
Buzzard	3	3					6
Canada Goose	17			2	4	21	44
Carrion Crow	18	5	1	8	8	10	50
Cetti's Warbler	4				4	2	10
Chaffinch	4	3	28	37	44	17	133
Coal Tit	1				1	1	3
Collared Dove						1	1
Common Gull	87	35	1	6	23	3	155
Common Scoter	2						2
Coot	85	292	188	146	208	51	970
Cormorant	28	6	13	3	137	207	394
Curlew		2		8	9		19
Duncock	5	1	3		4	6	19
Gadwall	69	149	216	73	62	34	603
Goldcrest	2	1				2	5
Goldeneye	60	73	60	155	145	115	608
Goldfinch	1	3		2	1	5	12
Great Black-backed Gull	29	24	1	6	16	1	77
Great Crested Grebe	4					4	8
Great Spotted Woodpecker					1		1
Great Tit	5	2	1	7	24	8	47
Green Woodpecker				1			1
Greenfinch			4	3	2	3	12
Grey Heron		1	5	2			8
Grey Partridge	2					9	11
Grey Wagtail	1						1
Greylag Goose	32	1100			2	28	1162
Herring Gull	26	41	16	15	31	46	175
House Sparrow	7		1		3	2	13
Jackdaw	86	6	17	5	21	51	186

Jay	2					1	3
Kestrel	3	4	1	1	2		11
Lapwing			5		65	4	74
Linnet	35	1	43	30	4	39	152
Little Egret	1				5		6
Long-tailed Duck				1		1	2
Long-tailed Tit	37	4		2	2	3	48
Magpie	3	4	11	2	12	14	46
Mallard	87	36	62	116	21	54	376
Marsh Harrier	2	2	2	1	2	3	12
Meadow Pipit		1				1	2
Mediterranean Gull	1						1
Mistle Thrush			1	1			2
Moorhen	1		2	2	1	1	7
Mute Swan	105	90	77	32	35	10	349
Nuthatch				1			1
Oystercatcher						1	1
Pheasant	1			1	1		3
Pied Wagtail	1	1				1	3
Pink-footed Goose	217	189	170		245		821
Pochard	2	3	139	47	111	51	353
Red-crested Pochard			3				3
Redwing	45		25	16	1		87
Reed Bunting	7	4	11	7	15	10	54
Ringed Plover	2	3					5
Robin	10	1	6	1	11	5	34
Rook	37	2	10	1		9	59
Scaup	1						1
Shelduck					1		1
Shoveler					17	26	43
Siskin	2			1		2	5
Skylark	1	1			4	20	26
Slavonian Grebe		1					1
Smew						1	1
Snipe				1			1
Song Thrush					4	7	11
Starling	6935	6	1	1	4	9	6956
Stock Dove		4	1			3	8
Stonechat		1					1
Teal	3		11	22	38	23	97
Tree Sparrow			1			6	7
Treecreeper					1		1
Tufted Duck	152	279	327	132	83	117	1090



Water Rail		1	2			1	4	
Wigeon	57	9	616	925	144	47	1798	
Wood Pigeon	143	13	70	3	26	27	282	
Wren	15	2	5		3	11	36	
Yellowhammer			18				18	
<b>Totals</b>								
<b>Total Species</b>								<b>88</b>
<b>No. Red Listed</b>								<b>19</b>
<b>No. Amber Listed</b>								<b>32</b>
<b>No. Schedule 1</b>								<b>10</b>

#### Transect 4

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird	11			1	5	2	19
Blue Tit					3	3	6
Bullfinch						2	2
Carrion Crow	1		4	2	4	4	15
Chaffinch				2	4	1	7
Collared Dove					19	2	21
Common Gull	13	16	115	3	8	2	157
Cormorant	3						3
Duncock	1			1	1	6	9
Golden Plover	20						20
Goldfinch	1		3				4
Great Black-backed Gull	11	1	1			4	17
Great Tit	1						1
Guillemot			1	2			3
Herring Gull	23	12	10	7	3	64	119
House Sparrow					6		6
Jackdaw						2	2
Kestrel	1	1			1		3
Knot	2						2
Lesser Redpoll	2						2
Linnet		5			38	17	60
Long-tailed Tit						2	2
Magpie						1	1
Mallard						2	2
Meadow Pipit	2					2	4
Moorhen					1		1
Pheasant	1			1		1	3
Pied Wagtail						1	1

Red-legged Partridge		2					2
<b>Red-throated Diver</b>		2	11		2		15
Reed Bunting						2	2
Ringed Plover		21					21
Robin	3			2	2	1	8
Sanderling		24		3	1	1	29
Siskin	10						10
Skylark	3				3	6	12
<b>Snow Bunting</b>	15	1					16
Song Thrush				1	2		3
Sparrowhawk	1						1
Starling	28		60			14	102
Stock Dove					8	3	11
Teal					62		62
Tree Sparrow	6					1	7
Twite					1		1
Wood Pigeon				2	2	5	9
Wren	1			1	2	3	7
Yellowhammer				1		2	3
<b>Totals</b>							
<b>Total Species</b>							<b>47</b>
<b>No. Red Listed</b>							<b>10</b>
<b>No. Amber Listed</b>							<b>19</b>
<b>No. Schedule 1</b>							<b>2</b>

### Transect 5

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird	13				1	2	16
Black-headed Gull	2						2
Carrion Crow	1				1	3	5
Chaffinch	1						1
Chiffchaff						1	1
Common Gull	6	8		12	57	9	92
Cormorant		1					1
Dunnock	1	1	1		1	1	5
Goldfinch		5				2	7
Great Black-backed Gull		1	1	2	2		6
Great Tit		2	2			1	5
Greylag Goose	52		4				56
Herring Gull	4	2	36	4	3	61	110
House Sparrow	2					2	4
Knot			26				26



Lesser Black-backed Gull						1	1
Magpie					1		1
Meadow Pipit						6	6
Pheasant			1		1		2
Pink-footed Goose				8			8
Red-breasted Merganser	1						1
Red-throated Diver		6	4	2			12
Ringed Plover	5		62		1		68
Robin	1					1	2
Rook					4		4
Sanderling			1				1
Siskin	1						1
Skylark	7				5	6	18
Snow Bunting	1						1
Starling		32				31	63
Stock Dove						2	2
Tree Sparrow			8			2	10
Wood Pigeon	1				43	8	52
Woodcock	1						1
Wren	1		1			1	3
Yellowhammer		3	2			1	6
<b>Totals</b>							
<b>Total Species</b>							<b>36</b>
<b>No. Red Listed</b>							<b>8</b>
<b>No. Amber Listed</b>							<b>15</b>
<b>No. Schedule 1</b>							<b>2</b>

### Transect 6

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird	12	1	1	3	3	3	23
Black-headed Gull	206	109	34				349
Blue Tit	1	1		3	6		11
<b>Brambling</b>						1	1
Bullfinch					1	4	5
Buzzard	1			1	1	2	5
Carrion Crow	9	8	11	8	7	16	59
Chaffinch		4		3	14	11	32
Coal Tit						1	1
Collared Dove						1	1
Common Gull	372	216	43	72	573		1276
Cormorant	9	1				3	13
Corn Bunting					5	4	9

<b>Curlew</b>	4	4	2	9	20	1	40
<b>Dunlin</b>						1	1
<b>Dunnock</b>	5	1	1		7	10	24
<b>Fieldfare</b>				48		2	50
Golden Plover		21			35		56
Goldfinch	2	5			3	3	13
<b>Great Black-backed Gull</b>	11	2	2				15
Great Spotted Woodpecker	1					5	6
Great Tit	1			1	3	3	8
<b>Greenfinch</b>						3	3
<b>Grey Partridge</b>	18	15		5	2		40
<b>Greylag Goose</b>					4		4
<b>Herring Gull</b>	37	14	4	25	2	4	86
<b>House Sparrow</b>					22	7	29
Jackdaw	9			1	50	27	87
<b>Kestrel</b>	6	4	2	2		1	15
<b>Lesser Black-backed Gull</b>						1	1
<b>Linnet</b>					5	17	22
Long-tailed Tit						1	1
Magpie	2	2			2	6	12
<b>Meadow Pipit</b>	18	6	2	1	2	19	48
<b>Mediterranean Gull</b>	23	57	1				81
<b>Merlin</b>		1					1
<b>Peregrine</b>			1		3		4
Pheasant	3	6	2	2	1	7	21
Pied Wagtail	1		4	1	2	2	10
<b>Pink-footed Goose</b>	2271	1000		32	388		3691
Raven						3	3
<b>Razorbill</b>						1	1
Red-legged Partridge						2	2
<b>Red-throated Diver</b>		1	29		13		43
<b>Redwing</b>	332		1	3		11	347
<b>Reed Bunting</b>	13	2	6	2	18	15	56
<b>Ringed Plover</b>	4						4
Robin	3			2	4	3	12
Rock Pipit	2						2
<b>Rook</b>	15			120	160	44	339
Siskin		1				2	3
<b>Skylark</b>	12	26	6	17	46	34	141
<b>Snipe</b>						1	1
<b>Snow Bunting</b>				34			34
<b>Song Thrush</b>	2		1		3	1	7
<b>Sparrowhawk</b>		1				1	2



Starling	505	220		255	163	15	1158
Stock Dove	25	5		25	6	12	73
Tree Sparrow	7	1	4	29	37	7	85
Treecreeper					1		1
Twite	2						2
Wood Pigeon	39	29	50	529	130	28	805
Woodcock	14	1					15
Wren	9	2			4	6	21
Yellowhammer		1	9	12	22	11	55
<b>Totals</b>							
<b>Total Species</b>							<b>65</b>
<b>No. Red Listed</b>							<b>17</b>
<b>No. Amber Listed</b>							<b>22</b>
<b>No. Schedule 1</b>							<b>7</b>

### Transect 7

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird	1	7	26	12	4	5	55
Black-headed Gull			2				2
Blue Tit	1	5	6	3		4	19
<b>Brambling</b>		1					1
Bullfinch					1		1
Buzzard		1			1	3	5
Carrion Crow		2	4	5	17	15	43
Chaffinch	1	2	4	7	5	10	29
Chiffchaff						4	4
Coal Tit			1	1			2
Collared Dove	1	3	6	1	1	1	13
Common Gull		45	6	49			100
Cormorant		2	1	2			5
Duncock		1	1	2	3	2	9
<b>Fieldfare</b>			3	228	1		232
Goldcrest	1					1	2
Goldfinch		1		2		4	7
Great Black-backed Gull		3					3
Great Spotted Woodpecker	1					1	2
Great Tit	1	1	7	3	7		19
Greenfinch					2		2
Grey Heron		1					1
Grey Partridge				1			1
Grey Wagtail	1		1		1	1	4
Greylag Goose		7					7

Herring Gull	8	63					71
House Sparrow	2					2	4
Jackdaw	6	39	13	70	20	22	170
Kestrel	1	1	2	1		1	6
Kingfisher					1		1
Linnet	3	1		12	2	3	21
Little Grebe		1					1
Long-tailed Tit	3				6	1	10
Magpie		2	4			1	7
Mallard		6	1		3	7	17
Marsh Harrier						1	1
Mistle Thrush		2	2				4
Moorhen		2	4			2	8
Mute Swan				2			2
Peregrine				1			1
Pheasant	2	5	2		9	6	24
Pied Wagtail	2		1	1		1	5
Redwing			1	39			40
Reed Bunting	3	5	4		4	2	18
Robin	2	4	4	4		2	16
Rook	48	82	21	162	46	20	379
Siskin	5	11					16
Skylark	1	1			9	8	19
Song Thrush	1		2	1	4		8
Starling	14	58	59	122	19	5	277
Stock Dove	26	6	9	6	11	4	62
Tawny Owl		1					1
Teal			8	8	20		36
Tree Sparrow		14	11	14	16	1	56
Treecreeper				1			1
Wood Pigeon	30	66	104	111	156	26	493
Wren	2	17	2		7	9	37
Yellowhammer	6	10	15		8	1	40
<b>Totals</b>							
<b>Total Species</b>							<b>58</b>
<b>No. Red Listed</b>							<b>11</b>
<b>No. Amber Listed</b>							<b>20</b>
<b>No. Schedule 1</b>							<b>6</b>



Transect 8

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird	3		12	4	3	7	29
Black-headed Gull	50	74	14	6	19		163
Blue Tit	3	3	8	10	12	9	45
Bullfinch	2		1		1		4
Buzzard	1	1	1	5	1		9
Carrion Crow	1	7	9	4	6	6	33
Cetti's Warbler	1		1		1	4	7
Chaffinch	8	14	5	7	11	12	57
Chiffchaff						6	6
Coal Tit				1			1
Collared Dove				2	1	2	5
Common Gull	44	17	2	13	23		99
Coot					4	4	8
Cormorant	191	76	237	158	92	35	789
Dunnock	1	4	1	1	3	6	16
Fieldfare		7		48			55
Gadwall						6	6
Goldcrest	1		2	1			4
Goldeneye			2				2
Goldfinch	6	10	1	2	1	9	29
Great Black-backed Gull		1					1
Great Spotted Woodpecker			2	2			4
Great Tit	1	3	14	7	2	9	36
Green Sandpiper	1	2	2	1			6
Greenfinch						2	2
Grey Heron	56	30	20	35	13	11	165
Grey Partridge			5				5
Grey Wagtail			1	2		1	4
Greylag Goose			126	4	2	4	136
Herring Gull	1	13	4	4	5	11	38
House Sparrow			2		1	2	5
Jackdaw	66	64	22	14	30	7	203
Kestrel	2	1	3	4		2	12
Kingfisher	1		1		1	5	8
Lapwing				85	2	1	88
Linnet	1		16		2	11	30
Little Egret	3			3		1	7
Little Grebe	4	4	2	1	4	1	16
Long-tailed Tit	6		5			2	13
Magpie	2		4	3	2	1	12

Mallard	2	13	11	6	10	26	68
Marsh Harrier		1		1		1	3
Marsh Tit					2		2
Meadow Pipit		1					1
Mistle Thrush	2	1	2	3	2	1	11
Moorhen	17	1	25	25	9	5	82
Mute Swan	19	7	1	6	6	4	43
Pheasant		4	2	3		5	14
Pied Wagtail	6	5		2	4	2	19
Pink-footed Goose	742						742
Red-legged Partridge						2	2
Redwing			1		1		2
Reed Bunting	6			2	3	10	21
Robin	4		6	4	2	6	22
Rook	70	158	51	15	64	2	360
Siskin		2			11		13
Skylark	3	9		1	4	6	23
Snipe	1					1	2
Song Thrush	1	1		2	1	2	7
Sparrowhawk		1		1			2
Starling	523	115	102	43	26	4	813
Stock Dove	11	17		2	4	4	38
Teal				5		8	13
Tree Sparrow				6	2	4	12
Treecreeper					1		1
Tufted Duck					12	12	24
Water Rail					1		1
Whooper Swan		2					2
Wigeon	17				16	2	35
Wood Pigeon	31	6	14	19	22	14	106
Wren	10	5	7	3	8	19	52
Yellowhammer	2			2	3	1	8
<b>Totals</b>							
<b>Total Species</b>							<b>72</b>
<b>No. Red Listed</b>							<b>14</b>
<b>No. Amber Listed</b>							<b>25</b>
<b>No. Schedule 1</b>							<b>5</b>



Transect 9

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
<b>Bittern</b>						1	1
Blackbird	6	78	31	14	8	12	149
<b>Black-headed Gull</b>	74	20	49	83	217	137	580
Blue Tit	7	9	14	26	7	9	72
<b>Bullfinch</b>	4	3	7	3	1	1	19
Buzzard	2	4	5	1	4		16
Carrion Crow	32	33	10	18	48	15	156
<b>Cetti's Warbler</b>	7	8	5	5	6	10	41
Chaffinch	7	9	7	6	9	11	49
Chiffchaff	1						1
Coal Tit				1	1		2
Collared Dove		6	102	2	2		112
<b>Common Gull</b>	304	71	210	104	146	93	928
Coot		4		12	14	8	38
Cormorant	18	38	34	17	8		115
<b>Curlew</b>				34	10		44
<b>Dunlin</b>	3					14	17
<b>Dunnock</b>	4	4	5	2	4	4	23
<b>Fieldfare</b>		98	9	172	113	189	581
<b>Gadwall</b>	2	4	7	26	32	29	100
Goldcrest	1	2	2	2			7
Golden Plover				1	452		453
<b>Goldeneye</b>		2	3	7	15	19	46
Goldfinch	12	10	27	5	2	2	58
Goosander					2		2
<b>Great Black-backed Gull</b>		1					1
Great Crested Grebe	2	3	7		7	4	23
Great Spotted Woodpecker	2	1			2	1	6
Great Tit	2	4	6	5	13	8	38
<b>Greenfinch</b>			51		2	3	56
<b>Greenshank</b>					78		78
Grey Heron	5	6	6	5	23	4	49
<b>Grey Partridge</b>	7		2	1			10
<b>Grey Wagtail</b>		3	2		1		6
<b>Greylag Goose</b>	16	349	553	229	246	128	1521
<b>Herring Gull</b>	2	1	13	12	1	4	33
<b>House Sparrow</b>	2	10		4	13	16	45
Jackdaw	24	2	13	8	77	3	127
<b>Kestrel</b>	6	3	5	2	2	4	22
<b>Kingfisher</b>		1			1	1	3

Lapwing	460	44	634	468	1078	612	3296
Lesser Black-backed Gull						4	4
Linnet	70		4	1	17	21	113
Little Egret		1	10	3	5	7	26
Little Grebe		9	7	4	4		24
Long-tailed Tit	6	29	13	11	9	2	70
Magpie	8	6	8	15	7	2	46
Mallard	113	32	63	67	116	24	415
Marsh Harrier	2	2	3	3	2		12
Meadow Pipit	6		5	2	10	1	24
Mistle Thrush	2		1				3
Moorhen	15	16	14	8	15	9	77
Mute Swan	17	26	54	9	25	10	141
Pheasant	26	15	6	3	16	8	74
Pied Wagtail	2	12	7	42	49	5	117
Pink-footed Goose	2060	8	24	24			2116
Pochard						1	1
Red-legged Partridge		11	1				12
Redshank	2	2		60	14	85	163
Redwing	3	43		11	5		62
Reed Bunting	22	40	29	23	62	44	220
Ringed Plover					224		224
Robin	10	11	11	7	11	9	59
Rook	142	151	51	84	107	60	595
Scaup				1	1		2
Shelduck					2	2	4
Shoveler		1	4			29	34
Siskin	15	1		3	1		20
Skylark	27	12	13	1	6	27	86
Snipe	1			6	8	1	16
Song Thrush	2	13	3		2	3	23
Sparrowhawk	2	1	2	3			8
Starling	391	1931	1016	152	950	113	4553
Stock Dove	31	35	3	3	7	4	83
Stonechat	2		1				3
Teal	484	93	218	1214	134	132	2275
Tree Sparrow	26			5			31
Treecreeper	1	1	1		1		4
Tufted Duck	38	88		40	51	21	238
Water Rail	1	5	3	1	1	4	15
White Egret	1	2	1	3	3	3	13
Whooper Swan	2	2					4
Wigeon	123	47	6	101	16	59	352



Wood Pigeon	406	76	489	325	313	898	2507
Woodcock					1		1
Wren	15	20	19	11	11	13	89
Yellowhammer	4	25	18	12	42	57	158
<b>Totals</b>							
<b>Total Species</b>							<b>87</b>
<b>No. Red Listed</b>							<b>19</b>
<b>No. Amber Listed</b>							<b>27</b>
<b>No. Schedule 1</b>							<b>8</b>

### Transect 10

Species	Visit 1	Visit 2	Visit 3	Visit 4
Blackbird	2		6	1
Black-headed Gull	46	88	24	
Blue Tit			5	1
Buzzard		2	1	
Canada Goose		8	14	
Carrion Crow	7		2	1
Chaffinch		1	10	4
Coal Tit	1		3	1
Collared Dove				1
Common Gull	47	83	14	5
Coot	459	535	434	249
Cormorant		25	31	6
Curlew		3		
Duncock			1	
Gadwall		45	67	
Goldcrest		2	1	
Goldeneye	14	21	22	12
Goldfinch			11	1
Great Black-backed Gull	5	6		
Great Crested Grebe	28	7	10	2
Great Spotted Woodpecker			1	
Great Tit			2	
Greenfinch	1			
Grey Heron		2	1	
Greylag Goose		514	114	
Herring Gull	11	7		6
Jackdaw	18	1	8	
Kestrel	1	1	1	
Lapwing		34	130	
Linnet			40	

Little Egret		3	1	
Little Grebe	1	3	8	
Long-tailed Tit		9	2	
Magpie		1		
Mallard		71	116	
Marsh Tit			1	
Moorhen		3	4	
Mute Swan		4	2	
Pheasant	1			1
Pied Wagtail		1		
Pintail			2	
Pochard	88	169	139	46
Red-crested Pochard	2		2	2
Redshank		2	23	
Redwing			14	
Reed Bunting	2		1	
Robin	1	1	1	3
Rook	42		3	
Shoveler	67	49	87	62
Skylark	1	2		
Smew			1	
Song Thrush		13	1	
Sparrowhawk		1		
Stock Dove			2	
Teal	12		438	22
Treecreeper		1		
Tufted Duck	133	153	166	46
Water Rail			1	
Wigeon		169	336	143
Wood Pigeon	3		50	7
Wren	2	1	3	1
Yellowhammer	1			
<b>Totals</b>				
<b>Totals species</b>				<b>62</b>
<b>No. Red Listed</b>				<b>11</b>
<b>No. Amber Listed</b>				<b>21</b>
<b>No. Schedule 1</b>				<b>1</b>



## Vantage Points

### Vantage Point 1

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird				1		1	2
Black-headed Gull						11	11
Blue Tit				1			1
Buzzard					1		1
Carrion Crow		1	2			2	5
Common Gull	23	5	23	19	3	6	79
Cormorant		1	4	5			10
Great Black-backed Gull			3	1	1	1	6
Grey Heron	2				1		3
Greylag Goose						3	3
Guillemot				1			1
Herring Gull	1	2	5		13	13	34
Linnet	7						7
Magpie		1				2	3
Mallard						2	2
Meadow Pipit		1				3	4
Oystercatcher						2	2
Pink-footed Goose	54						54
Red-throated Diver		2	13		3		18
Sanderling			6		2		8
Skylark					2	3	5
Starling		84					84
Wood Pigeon		3			2		5
Wren				1			1
<b>Totals</b>							
<b>Total Species</b>							<b>24</b>
<b>No. Red Listed</b>							<b>4</b>
<b>No. Amber Listed</b>							<b>12</b>
<b>No. Schedule 1</b>							<b>1</b>

Vantage Point 2

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Carrion Crow		21	11	6	2	3	43
Chaffinch				26			26
Common Gull				15	35		50
Corn Bunting						2	2
Fieldfare			15		8		23
Great Black-backed Gull	2						2
Herring Gull						3	3
House Sparrow				12			12
Kestrel		1	1	1	1		4
Lapwing	32						32
Linnet						4	4
Magpie	2	1		2			5
Meadow Pipit	1					1	2
Peregrine		1					1
Pheasant						2	2
Pied Wagtail				4			4
Reed Bunting						3	3
Robin	1						1
Rook		14	120			1	135
Skylark	1				11	4	16
Starling		258					258
Stock Dove		22					22
Tree Sparrow				2			2
Wood Pigeon	27					70	97
Wren	1						1
Yellowhammer			2				2
<b>Totals</b>							
<b>Total Species</b>							<b>26</b>
<b>No. Red Listed</b>							<b>10</b>
<b>No. Amber Listed</b>							<b>8</b>
<b>No. Schedule 1</b>							<b>2</b>



Vantage Point 3

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
<b>Barn Owl</b>					1		1
Blackbird		2	5				7
Black-headed Gull	2		2	4	16		24
Carrion Crow		1					1
Common Gull	3	2	19	110	11		145
Curlew			8				8
Goldeneye			1				1
Great Black-backed Gull		1	1		2		4
Guillemot				2			2
Herring Gull	3	1	4	5	1	12	26
Kestrel	1	1					2
Linnet					20	1	21
Meadow Pipit	7					5	12
Pheasant			1				1
Red-throated Diver			3	2	1		6
Redwing			1				1
Sanderling	1				2		3
Siskin	12						12
Skylark	17	14			1	3	35
Snow Bunting	26						26
Starling	26	3	1			130	160
Teal			8				8
Wood Pigeon			5		1	2	8
Yellowhammer	1						1
<b>Totals</b>							
<b>Total Species</b>							<b>24</b>
<b>No. Red Listed</b>							<b>7</b>
<b>No. Amber Listed</b>							<b>10</b>
<b>No. Schedule 1</b>							<b>4</b>

Vantage Point 4

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird		1					1
Black-headed Gull			1	6	1		8
Carrion Crow	6	6		2	1		15
Common Gull				7	5		12
Cormorant					2		2
Golden Plover		16					16
Great Black-backed Gull		4	2	1	1		8
Guillemot				3			3
Herring Gull	8	5	4	19	17	17	70
Kestrel	1						1
Meadow Pipit	1				1	4	6
Mediterranean Gull					2		2
Pied Wagtail		1					1
Red-throated Diver		2	2	8	6		18
Rook						1	1
Shag			1				1
Skylark	3					1	4
Snow Bunting					2		2
Song Thrush					1		1
Starling	1						1
Woodcock		1					1
<b>Totals</b>							
<b>Total Species</b>							<b>21</b>
<b>No. Red Listed</b>							<b>5</b>
<b>No. Amber Listed</b>							<b>9</b>
<b>No. Schedule 1</b>							<b>3</b>

Vantage Point 5

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird	1			2			3
Black-headed Gull		1	8	5			14
Blue Tit		2	1	1	1	2	7
Buzzard	1						1
Carrion Crow	1	3	7	9	4	10	34
Chaffinch	1	2	10	10	2	1	26
Chiffchaff						1	1
Common Gull		4	52		1		57
Cormorant				2			2
Goldfinch					2	4	6
Great Tit					1		1
Greenfinch						1	1
Herring Gull		4	6				10
House Sparrow						1	1
Jackdaw	1	1					2
Jay			1				1
Kestrel		1					1
Linnet				3			3
Magpie		2	1				3
Pied Wagtail						1	1
Redwing		2	28				30
Robin	1	2			2	1	6
Siskin		1					1
Skylark					1		1
Song Thrush				1			1
Starling		5			70		75
Wood Pigeon	8	41	5	2	68	2	126
Wren		1	1			1	3
<b>Totals</b>							
<b>Total Species</b>							<b>28</b>
<b>No. Red Listed</b>							<b>6</b>
<b>No. Amber Listed</b>							<b>7</b>
<b>No. Schedule 1</b>							<b>1</b>



Vantage Point 6

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird			3	2			5
Black-headed Gull	1		20	18	8	2	49
Buzzard			1		1		2
Carrion Crow	4	5	1	1	10	2	23
Chaffinch				3			3
Common Gull	4	6	26	29	61	48	174
Dunnock			2	1	1	1	5
Goldfinch			1				1
Greenfinch			1				1
Herring Gull		1	5				6
Jackdaw	2	49	4	3	10	12	80
Kestrel						2	2
Linnet			12	1			13
Little Owl			1			1	2
Meadow Pipit			1				1
Pheasant		1	7			1	9
Pied Wagtail		1	1		1	1	4
Red Kite				1			1
Red-legged Partridge		1			2	2	5
Redwing				1	3		4
Reed Bunting			1				1
Robin	1		1			2	4
Rook		68	3	1	3	2	77
Skylark			6		4	3	13
Starling		13	41				54
Stock Dove		3				4	7
Tree Sparrow						1	1
Wood Pigeon	510	29				1	540
Wren			2	1		2	5
Yellowhammer			17	23		1	41
<b>Totals</b>							
<b>Total Species</b>							<b>30</b>
<b>No. Red Listed</b>							<b>7</b>
<b>No. Amber Listed</b>							<b>11</b>
<b>No. Schedule 1</b>							<b>2</b>

Vantage Point 7

See Transect 10.

Vantage Point 8

See Transect 10.

Vantage Point 9

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Bar-tailed Godwit						2	2
Blackbird	1	1	1	1			4
Black-headed Gull		50	3		2		55
Blue Tit	1						1
Buzzard		1			1		2
Carrion Crow	4	1	2		1	1	9
Chaffinch	1					1	2
Collared Dove			3				3
Common Gull	8	79	3		47		137
Cormorant	7	2	3				12
Corn Bunting						2	2
Fieldfare	2	1	151	26			180
Great Spotted Woodpecker	1						1
Grey Heron	2	1		1			4
Greylag Goose			20				20
House Sparrow	1						1
Lapwing					8	7	15
Linnet		14	38				52
Little Egret		1		2	1		4
Little Grebe					1		1
Long-tailed Tit	2						2
Magpie	3					1	4
Mallard					2	7	9
Marsh Harrier						1	1
Meadow Pipit		1		7		2	10
Mistle Thrush	1						1
Mute Swan		22	1	2		2	27
Oystercatcher						2	2
Pheasant						2	2
Pied Wagtail				1			1
Pink-footed Goose						1	1
Redshank					1		1
Redwing			24	2			26

Reed Bunting			1	1	1	1	4
Robin			1			1	2
Rook			8			3	11
Skylark						1	1
Snipe				1			1
Song Thrush			1				1
Starling		90	28		1		119
Stock Dove		8	8	3			19
Stonechat				2	1		3
Tree Sparrow						2	2
White Egret		1					1
Whooper Swan		3				1	4
Wigeon					6		6
Wood Pigeon	5	9	57			7	78
Wren	2	3	1	1		1	8
Yellowhammer			1				1
<b>Totals</b>							
<b>Total Species</b>							<b>49</b>
<b>No. Red Listed</b>							<b>10</b>
<b>No. Amber Listed</b>							<b>20</b>
<b>No. Schedule 1</b>							<b>4</b>

#### Vantage Point 10

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird	3	2	2				7
Black-headed Gull	30	2	4				36
Buzzard				1			1
Canada Goose				3			3
Carrion Crow		1	5		1	19	26
Common Gull			6	1	8		15
Cormorant		2	1	9	1	3	16
Dunnock	1					1	2
Fieldfare			33				33
Gadwall						4	4
Goldeneye					3		3
Grey Heron	1		1	1			3
Greylag Goose			6				6
Herring Gull		1			16		17
Jay						1	1
Kestrel			1				1
Kingfisher						1	1
Lapwing			1	10			11



Linnet						1	1	
Little Egret			1		2		3	
Little Grebe	6		6				12	
Magpie	1		6		1		8	
Mallard		18			2	4	24	
Marsh Harrier				1			1	
Meadow Pipit			2			1	3	
Moorhen	3		1				4	
Mute Swan	15	13	43	48	31		150	
Pheasant	1			1			2	
Pied Wagtail	1	1		1	1		4	
Pink-footed Goose	1					52	53	
Red-breasted Merganser						0	0	
Reed Bunting				1	2	4	7	
Skylark			2		3	5	10	
Snipe	2			1			3	
Starling			32		17		49	
Stock Dove				1	1		2	
Stonechat		2					2	
Teal		2		14		4	20	
White Egret				1			1	
Whooper Swan				5	3		8	
Wigeon		7			35		42	
Wood Pigeon	3	8		7	80	11	109	
Wren	1		1	1		2	5	
							<b>Totals</b>	
							<b>Total Species</b>	<b>43</b>
							<b>No. Red Listed</b>	<b>7</b>
							<b>No. Amber Listed</b>	<b>20</b>
							<b>No. Schedule 1</b>	<b>4</b>

### Vantage Point 11

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird	2		1	1	1	1	6
Black-headed Gull	1			7	16		24
Blue Tit	1					2	3
Buzzard		1					1
Carrion Crow	1	3		2	7	3	16
Chaffinch		2	1	1	4	1	9
Chiffchaff						2	2
Collared Dove						1	1
Common Gull		2					2

Cormorant	7		38	3			48
Dunnock		1				2	3
<b>Fieldfare</b>			5				5
Gadwall						2	2
Goldfinch	1		1		1	5	8
Great Spotted Woodpecker		2	1				3
<b>Greenfinch</b>				1			1
Greylag Goose						2	2
<b>Herring Gull</b>				4			4
Kestrel		1	1		1		3
<b>Linnet</b>				4			4
Little Egret				1		1	2
Long-tailed Tit						2	2
Magpie	1					1	2
Mallard	2	5	2	9		3	21
<b>Marsh Harrier</b>				3			3
<b>Mistle Thrush</b>	1	2					3
Moorhen	2					2	4
Mute Swan				2			2
Pheasant		1	1		1	1	4
Pink-footed Goose	42						42
<b>Redwing</b>			11	8			19
Reed Bunting		2				3	5
Robin	1	1	1			2	5
<b>Skylark</b>					2		2
Song Thrush					1		1
Sparrowhawk		1					1
<b>Starling</b>					9		9
Stock Dove	31				1	1	33
Teal				25	32	3	60
Wood Pigeon	18	1			1	4	24
Wren	4	2	3	1		2	12
<b>Yellowhammer</b>				1			1
<b>Totals</b>							
<b>Total Species</b>							<b>42</b>
<b>No. Red Listed</b>							<b>10</b>
<b>No. Amber Listed</b>							<b>16</b>
<b>No. Schedule 1</b>							<b>3</b>

Vantage Point 12

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
<b>Barn Owl</b>		4					4
Blackbird	1	3	1	2	2	2	11
<b>Black-headed Gull</b>		8		6	17		31
Blue Tit	2	1	1	1			5
Buzzard			1		1		2
Canada Goose				3			3
Carrion Crow	2		1	2			5
Chaffinch	3		2	1	1		7
Chiffchaff						1	1
Collared Dove						1	1
<b>Common Gull</b>			3	2	1		6
Cormorant		16	1	2			19
<b>Duncock</b>	2	1	2		1	3	9
<b>Fieldfare</b>				1			1
Goldfinch		1	2				3
Great Tit	4			1	2	1	8
<b>Greenfinch</b>	16				1	1	18
Grey Heron						2	2
<b>Greylag Goose</b>			5	2		1	8
<b>Herring Gull</b>	1	56	2	1	2	2	64
Jackdaw		4	8	3	6	4	25
<b>Kestrel</b>		2	1		1		4
<b>Linnet</b>	14			40	2	13	69
Long-tailed Tit	11	10					21
Magpie	1			1			2
Pheasant			1			1	2
Red-legged Partridge						1	1
<b>Redwing</b>				6	9		15
<b>Reed Bunting</b>	1			1		1	3
Robin	2	1	1	1		2	7
<b>Rook</b>	1		2			1	4
Siskin		12					12
<b>Skylark</b>	1				1		2
<b>Song Thrush</b>		2			1	1	4
<b>Sparrowhawk</b>	2						2
<b>Starling</b>			1	5	48	41	95
<b>Stock Dove</b>				1			1
<b>Wood Pigeon</b>	5		60	13	4	11	93
<b>Wren</b>		2	1	1	2	1	7
<b>Yellowhammer</b>		7		6			13



Totals	
<b>Total Species</b>	<b>40</b>
<b>No. Red Listed</b>	<b>7</b>
<b>No. Amber Listed</b>	<b>13</b>
<b>No. Schedule 1</b>	<b>3</b>

Vantage Point 13

Species	Visit 1	Visit 2	Visit 3	Visit 4	Visit 5	Visit 6	Total
Blackbird		3	3		1		7
Blue Tit		1		1	1	1	4
Bullfinch						1	1
Buzzard				1	1	1	3
Canada Goose						6	6
Carrion Crow			1	2	4	2	9
Chaffinch	1				2		3
Common Gull						31	31
Cormorant			2		1		3
Dunnock	1	1	2	1			5
Goldfinch		1					1
Great Tit				1			1
Greenfinch					1		1
Grey Heron				1			1
Herring Gull				1	2		3
Jackdaw			85	12			97
Kestrel	2						2
Lapwing				130			130
Linnet	30						30
Long-tailed Tit		10					10
Magpie				1			1
Mallard						2	2
Marsh Harrier						2	2
Mute Swan			4				4
Pheasant			2	4			6
Redwing			1		2		3
Reed Bunting	3		1		1		5
Robin		1	1	1	1		4
Rook			100	69	6		175
Skylark	1		4		1	2	8
Song Thrush		2			1		3
Starling					1		1
Stock Dove			2		4		6
Wood Pigeon			8	1	152		161

Wren	1	2	1		1	1	6
Yellowhammer	3	1			1		5
<b>Totals</b>							
<b>Total Species</b>							<b>36</b>
<b>No. Red Listed</b>							<b>7</b>
<b>No. Amber Listed</b>							<b>13</b>
<b>No. Schedule 1</b>							<b>2</b>

## **APPENDIX E: Figures**