

## Ariogan Hazelwoods

This acquisition includes two outstanding areas of Atlantic hazelwood – our richest form of rainforest. Every stem is festooned with species of lichen, liverwort and moss, many of which are restricted to rainforest and are more abundant here than in any of the rainforest fragments elsewhere within Europe.

There are two principal areas of Atlantic hazelwood: the first, to the east of the main road, termed 'Ariogan' (NGR NM 8674 2729) in this report, and second one on the south-western boundary at 'An t-Innean' (NGR NM 8610 2670). Both are linear, following a warm, south-east facing shallow ridge .

Ariogan, lies on the edge of an area of neutral grassland, with some shallower, less competitive soils on steeper slopes on the upper woodland margin. There is some advance regeneration in this and scope for colonisation of hazel and blackthorn. This would be facilitated by periodic light cattle grazing to create a little soil disturbance and suppression of some patches of rank grasses - promotion of a scrubby mosaic as opposed to a well-grazed even sward. The area below the bank on our ownership boundary would also develop the highest potential biodiversity value through extensive, periodic cattle grazing and natural regeneration. If planting is proposed in this section of the acquisition, Please leave a 50m buffer to allow a mosaic of woodland, scrub and grassland to gradually develop.

It is a similar story at An t-Innean apart from more semi-natural adjacent vegetation which includes significant amounts of bracken that could quickly dominate without disturbance/grazing. Above this, 20-30 m from the upper woodland edge, are a series of shallow sloping rock outcrops with some scrub development and regeneration. The yellow polygon on the image (below) is a suggested area for further extensive cattle grazing. I believe that this coincides with an area for marsh fritillary butterfly that would of course benefit from extensive cattle grazing as well.



The hazelwoods themselves support a range of lobarion and graphidion lichens and epiphytic liverworts as well as a diverse ground flora typical of this woodland type, with NVC ranging from W9 to W11. Deer impacts are slightly too high currently to allow sufficient basal shoots to establish. Some deer browsing will be beneficial however, to reduce the scope for a dense field layer and coverage of hazel stems by ivy and honeysuckle.





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PREPARED FOR



**Forestry and Land  
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# Ariogan, Oban

## Breeding Bird Survey Report

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Table 1 Acronyms and abbreviations

| <b>Acronyms</b> | <b>Description</b>                                      |
|-----------------|---|
| BOCC            | Birds of Conservation Concern                           |
| BTO             | British Trust for Ornithology                           |
| CBC             | Common Bird Census                                      |
| EOAC            | European Ornithological Atlas Committee                 |
| FLS             | Forestry and Land Scotland                              |
| JNCC            | Joint Nature Conservancy Council                        |
| MAGIC           | Multi-Agency Geographic Information for the Countryside |
| NNR             | National Nature Reserve                                 |
| RSPB            | Royal Society for the Protection of Birds               |
| SAC             | Special Area of Conservation                            |
| SPA             | Special Protected Area                                  |
| SSSI            | Site of Special Scientific Interest                     |

## **EXECUTIVE SUMMARY**

1. Four breeding bird surveys were carried out on behalf of Forestry and Land Scotland on land at Ariogan near Oban in Fiunary Forest near Loch Aline, Moidart.
2. Thirty four species were observed on the site.
3. The site was found to have a typical diverse range of breeding birds for upland habitats on the west coast of Scotland.



# 1. INTRODUCTION

## 1.1 PURPOSE OF THE REPORT

This report presents the results of four breeding bird surveys carried out on behalf of Forestry and Land Scotland on land at Ariogan near Oban, Argyll.

## 1.2 ECOLOGICAL CONTEXT

The site lies 800m south of Oban and is an area of former grazing land with areas of woodland. The surrounding landscape is that of sheep grazing and woodlands.

## 1.3 STRUCTURE

This report is set out as follows:

- *Section 2* describes the methodologies for the ornithological surveys and evaluation methods used;
- *Section 3* describes results of the surveys;
- *Section 4* provides conclusions based on the results;  
*Section 5* provides references; and
- *Section 6* provides figures.

Appendices contain species-lists, background data search bird records, legislation and the European ornithological Atlas Committee (EOAC) criteria.

## **2. METHODOLOGY**

### **2.1 BACKGROUND DATA SEARCH**

**2.1.1** A desk-based assessment was carried out to collate existing ornithological information relating to the site. This included a search for statutory and non-statutory designated sites with ornithological qualifying interest features, as listed below:

- Internationally designated sites - Special Protection Areas (SPAs) and Ramsar sites, within 10 km of the site.
- Nationally designated sites - Sites of Special Scientific Interest (SSSIs) and National Nature Reserves (NNRs), within 2 km of the site.
- Non-statutory designated sites within 1 km of the site.

**2.1.2** Searches for statutory designated sites were undertaken using the Multi-Agency Geographic Information for the Countryside (MAGIC) website and NatureScot SiteLink.

### **2.2 BREEDING BIRD SURVEY METHODOLOGY**

**2.2.1** The survey methodology is adapted from the Common Bird Census (CBC) methodology devised jointly by the British Trust for Ornithology (BTO), the Royal Society for the Protection of Birds (RSPB) and the Joint Nature Conservancy Council (JNCC), (Gilbert et al. 1998).

**2.2.2** A transect route was walked incorporating all features that may function as nesting bird habitat within the site. All birds seen or heard were recorded onto base maps along with notes of behaviour that may indicate breeding.

**2.2.3** Birds observed were placed in a distance band according to where they were first noted.

1. Within 25m either side of the transect line.
2. Between 25m and 100m on either side of the transect line.
3. More than 100m on either side of the line, including birds outside the 1km square.
4. Birds in flight only, at any distance and are marked with an arrow showing flight direction.

2.2.4 Target species flight routes were mapped showing direction of flight.

2.2.5 Meadow pipits were not mapped as they were ubiquitous across the site during each survey.

## 2.3 OBJECTIVES

The objectives of the breeding bird survey were to:

- identify the distribution of breeding birds across the site;
- locate any birds protected under Schedule 1 of The Wildlife and Countryside Act 1981;

## 2.4 CRITERIA FOR EVALUATION

### 2.4.1 Determination of Breeding Status

The breeding status of each species is classified into three categories: Confirmed breeding; Probable breeding; and Possible breeding. The behaviour, sex, age and location of individual birds allow conclusions to be drawn about breeding status, based on categories devised by the European Ornithology Atlas Committee (EOAC 1979). Breeding evidence used in this report follows EOAC guidelines and these are given in Appendix C.

It is also possible that species are merely present in a habitat for a short period and are not actually breeding. Birds not thought to be breeding and birds only recorded flying-over the site are classed as non-breeding.

## 2.5 SURVEY LIMITATIONS

2.5.1 Surveys were undertaken at the ideal time of year and during good weather for breeding bird surveys.

2.5.2 In spite of good weather conditions, generally it is not realistic to expect to record every bird using a site during four breeding bird visits. However, the surveys were sufficient to record any important assemblages, and to identify areas of particular interest.

### **3. RESULTS**

#### **3.1 BACKGROUND DATA SEARCH**

##### **3.1.1 STATUTORY SITES**

3.1.1.1 There are no designated sites within 2km of the site.

##### **3.1.2 NON-STATUTORY SITES**

3.1.2.1 There are no non-statutory designated sites within 2 km of the site boundary.

##### **3.1.3 OTHER NOTABLE SITES**

3.1.3.1 There are four areas of woodlands of Long-Established (of plantation origin) within 2 km of the site boundary. These areas of woodland are likely to support a diverse assemblage of breeding birds.

##### **3.1.4 NOTABLE BIRD SPECIES**

3.1.4.1 At least 149 bird species have been recorded from places within 2 km of the site boundary. Notable species that are protected by law under The Wildlife and Countryside Act 1981 as amended by The Wildlife and Natural Environment (Scotland) Act 2011 and have been recorded in the search area relevant to the site are listed in Table 2 (excluding species protected only against collection for sale).



Table 2. Notable bird species records within 2 km of the site boundary

| Latin Name                        | Common Name          | Latin Name                   | Common Name       |
|-----------------------------------|----------------------|------------------------------|-------------------|
| <i>Mareca americana</i>           | American wigeon      | <i>Asio otus</i>             | Long-eared owl    |
| <i>Stercorarius parasiticus</i>   | Arctic skua          | <i>Clangula hyemalis</i>     | Long-tailed duck  |
| <i>Sterna paradisaea</i>          | Arctic tern          | <i>Anas platyrhynchos</i>    | Mallard           |
| <i>Anser indicus</i>              | Bar-headed goose     | <i>Aythya ferina</i>         | Pochard           |
| <i>Limosa lapponica</i>           | Bar-tailed Godwit    | <i>Puffinus puffinus</i>     | Manx shearwater   |
| <i>Tyto alba</i>                  | Barn owl             | <i>Anthus pratensis</i>      | Meadow pipit      |
| <i>Lyrurus tetrix</i>             | Black grouse         | <i>Falco columbarius</i>     | Merlin            |
| <i>Sylvia atricapilla</i>         | Blackcap             | <i>Turdus viscivorus</i>     | Mistle thrush     |
| <i>Chroicocephalus ridibundus</i> | Black-headed gull    | <i>Gallinula chloropus</i>   | Moorhen           |
| <i>Cephus grylle</i>              | Black guillemot      | <i>Cygnus olor</i>           | Mute swan         |
| <i>Gavia arctica</i>              | Black-throated diver | <i>Haematopus ostralegus</i> | Oystercatcher     |
| <i>Pyrhula pyrrhula</i>           | Bullfinch            | <i>Falco perigrinus</i>      | Peregrine         |
| <i>Branta hutchinsii</i>          | Cackling goose       | <i>Anser brachyrhynchus</i>  | Pink-footed goose |
| <i>Branta canadensis</i>          | Canada goose         | <i>Corvus corax</i>          | Raven             |
| <i>Phylloscopus collybita</i>     | Chiffchaff           | <i>Alca torda</i>            | Razorbill         |
| <i>Pyrhacorax pyrrhacorax</i>     | Chough               | <i>Lagopus lagopus</i>       | Red grouse        |
| <i>Streptopelia decaocto</i>      | Collared dove        | <i>Tringa totanus</i>        | Redshank          |

| Latin Name                  | Common Name      | Latin Name                     | Common Name            |
|-----------------------------|------------------|--------------------------------|------------------------|
| <i>Larus canus</i>          | Common gull      | <i>Mergus serrator</i>         | Red breasted merganser |
| <i>Uria aalge</i>           | Common guillemot | <i>Acanthis caberet</i>        | Redpoll                |
| <i>Actitis hypoleucos</i>   | Common sandpiper | <i>Gavia stellata</i>          | Red-throated diver     |
| <i>Melanitta nigra</i>      | Common scoter    | <i>Phoenicurus phoenicurus</i> | Redstart               |
| <i>Sterna hirundo</i>       | Common tern      | <i>Turdus iliacus</i>          | Redwing                |
| <i>Crex crex</i>            | Corncrake        | <i>Emberiza schoeniclus</i>    | Reed bunting           |
| <i>Fulica atra</i>          | Coot             | <i>Aythya collaris</i>         | Ring-necked duck       |
| <i>Phalacrocorax carbo</i>  | Cormorant        | <i>Charadrius hiaticula</i>    | Ringed plover          |
| <i>Loxia curvirostra</i>    | Crossbill        | <i>Columba livia</i>           | Rock dove              |
| <i>Cuculus canorus</i>      | Cuckoo           | <i>Anthus petrosus</i>         | Rock pipit             |
| <i>Numenius arquata</i>     | Curlew           | <i>Corvus frugilegus</i>       | Rook                   |
| <i>Cinclus cinclus</i>      | Dipper           | <i>Anser rossii</i>            | Ross's goose           |
| <i>Calidris alpina</i>      | Dunlin           | <i>Riparia riparia</i>         | Sand martin            |
| <i>Prunella modularis</i>   | Dunnock          | <i>Gulosus aritotelis</i>      | Shag                   |
| <i>Somateria mollissima</i> | Eider            | <i>Tadorna tadorna</i>         | Shelduck               |
| <i>Anser canagicus</i>      | Emperor goose    | <i>Asio flammeus</i>           | Short-eared owl        |
| <i>Turdus pilaris</i>       | Fieldfare        | <i>Alauda arvensis</i>         | Skylark                |
| <i>Morus bassanus</i>       | Gannet           | <i>Gallinago gallinago</i>     | Snipe                  |

| Latin Name                           | Common Name              | Latin Name                   | Common Name        |
|--------------------------------------|--------------------------|------------------------------|--------------------|
| <i>Sylvia borin</i>                  | Garden warbler           | <i>Plectrophenax nivalis</i> | Snow bunting       |
| <i>Larus hyperboreus</i>             | Glaucous gull            | <i>Egretta thula</i>         | Snowy egret        |
| <i>Locustella naevia</i>             | Grasshopper warbler      | <i>Turdus philomelos</i>     | Song thrush        |
| <i>Bucephala clangula</i>            | Goldeneye                | <i>Muscicapa striata</i>     | Spotted flycatcher |
| <i>Regulus regulus</i>               | Goldcrest                | <i>Sturnus vulgaris</i>      | Starling           |
| <i>Larus marinus</i>                 | Great black-backed gull  | <i>Hirundo rustica</i>       | Swallow            |
| <i>Gavia immer</i>                   | Great northern diver     | <i>Apus apus</i>             | Swift              |
| <i>Stercorarius skua</i>             | Great skua               | <i>Strix aluco</i>           | Tawny owl          |
| <i>Podiceps cristatus</i>            | Great-crested grebe      | <i>Anas creca</i>            | Teal               |
| <i>Dendrocopos major</i>             | Great-spotted woodpecker | <i>Certhia familiaris</i>    | Treecreeper        |
| <i>Chloris chloris</i>               | Greenfinch               | <i>Anthus trivialis</i>      | Tree pipit         |
| <i>Tringa nebularia</i>              | Greenshank               | <i>Aythya fuligula</i>       | Tufted duck        |
| <i>Ardea cinerea</i>                 | Grey heron               | <i>Arenaria interpres</i>    | Turnstone          |
| <i>Anser anser</i>                   | Greylag goose            | <i>Streptopelia turtur</i>   | Turtle dove        |
| <i>Motacilla cinerea</i>             | Grey wagtail             | <i>Linaria flavirostris</i>  | Twite              |
| <i>Coccothraustes coccothraustes</i> | Hawfinch                 | <i>Oenanthe oenanthe</i>     | Wheatear           |
| <i>Larus argentatus</i>              | Herring gull             | <i>Saxicola rubetra</i>      | Whinchat           |
| <i>Delichon urbicum</i>              | House martin             | <i>Curruca communis</i>      | Whitethroat        |

| Latin Name                    | Common Name              | Latin Name                     | Common Name    |
|-------------------------------|--------------------------|--------------------------------|----------------|
| <i>Passer domesticus</i>      | House sparrow            | <i>Cygnus cygnus</i>           | Whooper swan   |
| <i>Larus glaucoides</i>       | Iceland gull             | <i>Mareca penelope</i>         | Wigeon         |
| <i>Falco tinnunculus</i>      | Kestrel                  | <i>Phylloscopus trochilus</i>  | Willow warbler |
| <i>Alcedo attis</i>           | Kingfisher               | <i>Scolopax rusticola</i>      | Woodcock       |
| <i>Rissa tridactyla</i>       | Kittiwake                | <i>Columba palampus</i>        | Woodpigeon     |
| <i>Vanellus vanellus</i>      | Lapwing                  | <i>Phylloscopus sibilatrix</i> | Wood warbler   |
| <i>Larus fuscus</i>           | Lesser black-backed gull | <i>Troglodytes troglodytes</i> | Wren           |
| <i>Linaria cannabina</i>      | Linnet                   | Kestrel                        | Yellowhammer   |
| <i>Alle alle</i>              | Little auk               | <i>Emberiza citrinella</i>     | Yellowhammer   |
| <i>Egretta garzetta</i>       | Little egret             | <i>Emberiza citrinella</i>     | Yellowhammer   |
| <i>Tachybaptus ruficollis</i> | Little grebe             | <i>Emberiza citrinella</i>     | Yellowhammer   |

## 3.2 BREEDING BIRD SURVEY RESULTS

### 3.2.1 OVERVIEW

3.2.1.1 A total of 34 species were recorded; of these 23 species were confirmed breeding, probable breeding or possible breeding. A complete species list summarising breeding status, based on EOAC criteria, is presented in Appendix B.

### 3.2.2 BREEDING STATUS

3.2.2.1 Interpreting the data using the EOAC criteria, 10 species (29%) are confirmed as breeding. Nine species are probably breeding (26%). Four



species are thought to be possibly breeding (12%) and 11 species (33%) are categorised as non-breeding species.

### 3.2.3 BIRDS OF CONSERVATION CONCERN

3.2.3.1 Of the 34 bird species recorded, 14 (41%) are Birds of Conservation Concern (BOCC) (Stanbury et al. 2021). Their associated conservation and breeding status are presented in Table 3.

3.2.3.2 Six red listed bird species were recorded within the survey area during the breeding bird surveys and include cuckoo, grasshopper warbler, herring gull, linnet, redpoll and yellowhammer. Wood warbler is the only one confirmed as breeding. Redpoll was classed as a probable breeding species. Grasshopper warbler and yellowhammer were classed as possible breeding species.

3.2.3.3 A total of nine amber listed species have been recorded within the survey area during the breeding bird surveys. Of these, meadow pipit, sparrowhawk, willow warbler and wren are confirmed as breeding. Woodpigeon is probably breeding on the site.

3.2.3.4 The associated BTO code for each species is given in Appendix E.

Table 3 Bird Species recorded during the breeding bird surveys of conservation concern, their conservation status and their breeding status

| English name                                     | BoCC Red / Amber | Breeding Status |
|--|------------------|-----------------|
| Cuckoo   | Red              | Not breeding    |
| Grasshopper warbler                              | Red              | Possible        |
| Linnet   | Red              | Not breeding    |
| Meadow pipit ( <i>Anthus pratensis</i> )         | Amber            | Confirmed       |
| Redpoll  | Red              | Probable        |
| Sparrowhawk                                      | Amber            | Confirmed       |
| Swallow ( <i>Hirundo rustica</i> )               | Amber            | Not breeding    |
| Swift  | Amber            | Not breeding    |
| Wheatear   | Amber            | Not breeding    |
| Whinchat   | Red              | Not breeding    |
| Willow warbler ( <i>Phylloscopus trochilus</i> ) | Amber            | Confirmed       |
| Woodpigeon                                       | Amber            | Probable        |
| Wren ( <i>Troglodytes troglodytes</i> )          | Amber            | Confirmed       |
| Yellowhammer                                     | Amber            | Possible        |

3.2.3.5 A table of the breeding bird survey weather data is shown in Appendix A.

3.2.3.6 No Annex 1 birds or Schedule 1 birds were observed on the site.

## **4. CONCLUSIONS**

### **4.1 GENERAL**

- 4.1.1 A total of 34 bird species were recorded during the breeding season bird surveys. Overall, the breeding bird surveys show that the habitats within the survey area provide a poor range of breeding bird species.
- 4.1.2 Of a total of 34 species recorded during the BBS surveys, 23 species were confirmed as breeding, probable breeding or possible breeding.

### **4.2 IMPORTANT SPECIES**

- 4.2.1 A sparrow hawk was twice seen taking nesting material towards the south of the site but no nest was located.

Greater butterfly orchid was found on the east of the site at NM 86732 27546.

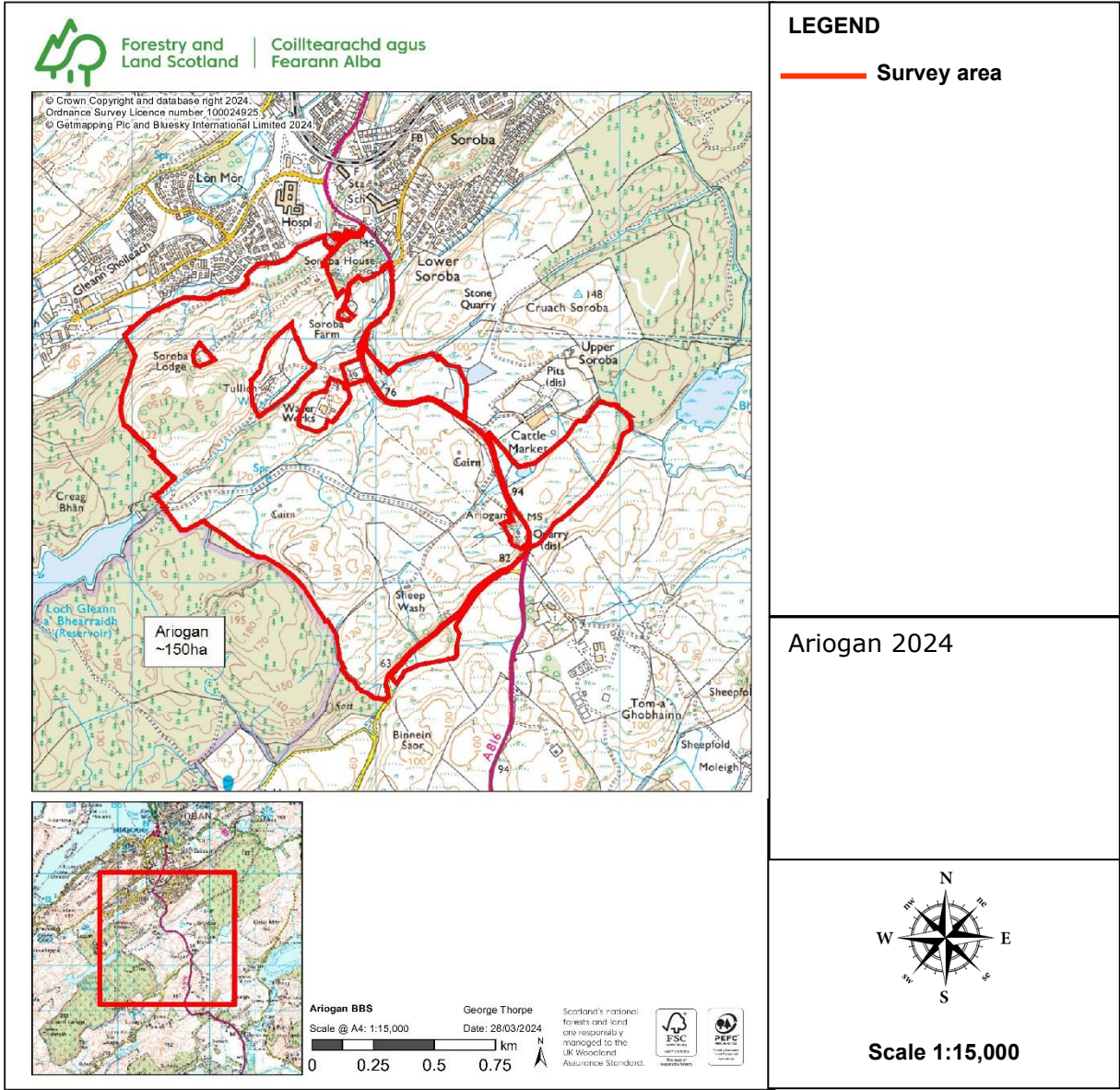
## 5. REFERENCES

- British Ornithologists' Union (BOU). (2013). The British List: A checklist of Birds of Britain (8th edition). Ibis 155: 635-676.
- European Ornithological Atlas Committee. (1979) *Categories of Breeding Bird Evidence*. European Ornithological Atlas Committee.
- Fuller R., J. (1980). A Method for Assessing the Ornithological Interest of Sites for Conservation. Biological Conservation 17: 229-239.
- Gilbert, G., Gibbons, D. W. and Evans, J., (1998). Bird Monitoring Methods. RSPB.
- National Biodiversity Network Gateway. Accessed online 14.10.2024  
<https://data.nbn.org.uk/>
- NatureScot Site Link. Accessed online 14.10.2024 <http://sitelink.nature.scot/home>
- Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. (2021). The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. British Birds 114:723-747.



## **6. FIGURES**

Figure 1. Breeding bird survey area – Ariogan  
BTO codes can be found in Appendix F



BTO codes can be found in Appendix F





BTO codes can be found in Appendix F





BTO codes can be found in Appendix F



BTO codes can be found in Appendix F





Figure 6 View of small pond area near cattle mart



Figure 7 View of west of site





Figure 8 View of east of site next to cattle mart



Figure 9 View of pine woodlands on northwest of site



## APPENDIX A. Breeding bird survey dates, times and weather conditions

| Date       | Start Time | End Time | Wind Speed | Wind Direction | Rain | Cloud cover | Cloud height | Visibility |
|------------|------------|----------|------------|----------------|------|-------------|--------------|------------|
| 07.05.2024 | 08:25      | 14:40    | 0          | W              | 0    | 1/8         | 2            | 2          |
|            |            |          | 0          | W              | 0    | 1/8         | 2            | 2          |
|            |            |          | 0          | W              | 0    | 1/8         | 2            | 2          |
|            |            |          | 0          | SW             | 0    | 1/8         | 2            | 2          |
|            |            |          | 0          | SW             | 0    | 1/8         | 2            | 2          |
|            |            |          | 0          | SW             | 0    | 1/8         | 2            | 2          |
| 05.06.2024 | 09:31      | 15:28    | 2          | SW             | 0    | 8/8         | 2            | 2          |
|            |            |          | 2          | SW             | 0    | 8/8         | 2            | 2          |
|            |            |          | 1          | S              | 0    | 8/8         | 2            | 2          |
|            |            |          | 1          | S              | 0    | 8/8         | 2            | 2          |
|            |            |          | 2          | SW             | 0    | 8/8         | 2            | 2          |
|            |            |          | 2          | SW             | 0    | 8/8         | 2            | 2          |
| 20.06.2024 | 11:00      | 17:00    | 2          | SSW            | 0    | 7/8         | 2            | 2          |
|            |            |          | 2          | SSW            | 1    | 7/8         | 2            | 2          |
|            |            |          | 3          | SSW            | 0    | 6/8         | 2            | 2          |
|            |            |          | 3          | SSW            | 0    | 6/8         | 2            | 2          |
|            |            |          | 3          | SW             | 0    | 5/8         | 2            | 2          |
|            |            |          | 3          | SW             | 0    | 5/8         | 2            | 2          |
| 09.07.2024 | 13:10      | 18:00    | 3          | SE             | 0    | 7/8         | 2            | 2          |
|            |            |          | 4          | SE             | 0    | 8/8         | 2            | 2          |
|            |            |          | 4          | SE             | 0    | 8/8         | 2            | 2          |
|            |            |          | 3          | SE             | 0    | 8/8         | 2            | 2          |
|            |            |          | 3          | ESE            | 2    | 8/8         | 2            | 2          |
|            |            |          | 3          | E              | 2    | 8/8         | 2            | 2          |

## APPENDIX B. All bird species recorded during breeding bird surveys, their conservation status and their breeding status

| English name                           | EU Birds Directive Annex 1 | WCA 1981 Sch 1 | BoCC Red / Amber | UK or Local BAP | Species Summary   | Breeding Status |
|--|----------------------------|----------------|------------------|-----------------|---|-----------------|
| Blackbird                              |                            |                |                  |                 | Alarm calling within blackthorn scrub on east of site.  | Confirmed       |
| Bluetit                                |                            |                |                  |                 | Observed in higher numbers within woodlands on northwest of site.                               | Confirmed       |
| Buzzard ( <i>Buteo buteo</i> )         |                            |                |                  |                 | Observed on site but no nests located.  | Not breeding    |
| Chaffinch ( <i>Fringilla coelebs</i> ) |                            |                |                  |                 | Observed in higher numbers within woodlands on northwest of site.                               | Probable        |
| Chiffchaff                             |                            |                |                  |                 | Heard in woodlands on northwest of site.  | Possible        |
| Coal tit ( <i>Periparus ater</i> )     |                            |                |                  |                 | Heard calling in woodlands on northwest of site   | Confirmed       |
| Collared dove                          |                            |                |                  |                 | Observed in north and south of site in pairs  | Probable        |
| Cuckoo                                 |                            |                | Red              |                 | Observed during first survey in west of site  | Not breeding    |
| Goldcrest                              |                            |                |                  |                 | Observed in willow scrub next to burn which feeds into Loch Gleann a' Bhearraidh                | Possible        |
| Goldfinch                              |                            |                |                  |                 | Observed in pine woodlands on northwest of site and a large flock observed passing through site | Probable        |
| Grasshopper warbler                    |                            |                | Red              | Yes             | Heard in scrub on site near burn on northwest   | Possible        |

| English name                                     | EU Birds Directive Annex 1 | WCA 1981 Sch 1 | BoCC Red / Amber | UK or Local BAP | Species Summary   | Breeding Status |
|--|----------------------------|----------------|------------------|-----------------|---|-----------------|
| Great tit  |                            |                |                  |                 | Heard alarm calling in woodland area  | Confirmed       |
| Grey heron                                       |                            |                |                  |                 | Single bird observed flying across site                                     | Not breeding    |
| Herring gull                                     |                            |                |                  | Yes             | Observed flying over site   | Not breeding    |
| Hooded crow                                      |                            |                |                  |                 | Observed scattered across site  | Probable        |
| Jackdaw  |                            |                |                  |                 | Nesting in woodlands on northwest of site                                   | Confirmed       |
| Linnet   |                            |                | Red              | Yes             | Observed on a single occasion moving through woodland area on north of site | Not breeding    |
| Meadow pipit ( <i>Anthus pratensis</i> )         |                            |                | Amber            |                 | Seen and heard on every survey across site. Observed alarm calling          | Confirmed       |
| Pied wagtail                                     |                            |                |                  |                 | Observed on tracks  | Probable        |
| Redpoll  |                            |                | Red              | Yes             |   | Probable        |
| Robin  |                            |                |                  |                 | Heard loud calling from tree tops   | Confirmed       |
| Sedge warbler                                    |                            |                |                  |                 | Single observation on south of site   | Not breeding    |
| Siskin   |                            |                |                  |                 | Passing through site  | Not breeding    |
| Song thrush                                      |                            |                |                  | Yes             | Observed on east and north of site  | Probable        |
| Sparrowhawk                                      |                            |                | Amber            |                 | Observed carrying nesting material.   | Confirmed       |
| Stonechat  |                            |                |                  |                 | Observed in scrub habitat   | Probable        |
| Swallow ( <i>Hirundo rustica</i> )               |                            |                | Amber            |                 | Observed flying near to cattle mart   | Not breeding    |
| Swift  |                            |                | Amber            |                 | Observed flying near to cattle mart   | Not breeding    |
| Wheatear   |                            |                | Amber            |                 | Single observation  | Not breeding    |
| Whinchat   |                            |                | Red              |                 | Single bird observed  | Not breeding    |
| Willow warbler ( <i>Phylloscopus trochilus</i> ) |                            |                | Amber            |                 | Heard alarm calling in scrub  | Confirmed       |

| English name                            | EU Birds Directive Annex 1 | WCA 1981 Sch 1 | BoCC Red / Amber | UK or Local BAP | Species Summary   | Breeding Status |
|---|----------------------------|----------------|------------------|-----------------|---|-----------------|
| Woodpigeon                              |                            |                | Amber            |                 | Observed near to woodland areas                           | Probable        |
| Wren ( <i>Troglodytes troglodytes</i> ) |                            |                | Amber            |                 | Observed across site and heard alarm calling              | Confirmed       |
| Yellowhammer                            |                            |                | Amber            | Yes             | Observed in low numbers in woodland area on north of site | Possible        |



## APPENDIX C. Determination of breeding status

The following evidence is used to define breeding categories during breeding bird surveys.

### **Possible Breeding**

1. Species observed in breeding season in possible nesting habitat.
2. Singing male(s) present (or breeding calls heard) in breeding season

### **Probable Breeding**

1. Pair observed in suitable nesting habitat in breeding season
2. Permanent territory presumed through registration of territorial behaviour (song, etc.) on at least two different days a week or more apart at the same place
3. Courtship and display
4. Visiting a probable nest site
5. Agitated behaviour or anxiety calls from adults
6. Brood patch on adult examined in the hand
7. Nest building or excavating nest-hole

### **Confirmed Breeding**

1. Distraction-display or injury feigning
2. Used nest or eggshells found (occupied or laid within period of survey)
3. Recently fledged young (nidicolous species) or downy young (nidifugous species)
4. Adults entering or leaving nest-site in circumstances indicating occupied nest (including high nest or nest-holes, the contents of which cannot be seen) or adult seen incubating
5. Adult carrying faecal sac or food for young
6. Nest containing eggs
7. Nest with young seen or heard

## APPENDIX D. List of bird species targeted for survey

| Latin Name                      | Common Name          | Designation      |
|---------------------------------|----------------------|------------------|
| <i>Accipiter gentilis</i>       | Goshawk              | WCA1             |
| <i>Actitis hypoleucos</i>       | Common Sandpiper     | Amber            |
| <i>Alauda arvensis</i>          | Skylark              | SBL, Red         |
| <i>Alcedo atthis</i>            | Kingfisher           | WCA1, SBL, Amber |
| <i>Anas crecca</i>              | Teal                 | Amber            |
| <i>Anas penelope</i>            | Wigeon               | Amber            |
| <i>Anser anser</i>              | Greylag Goose        | WCA1, Amber      |
| <i>Anthus pratensis</i>         | Meadow Pipit         | Amber            |
| <i>Anthus trivialis</i>         | Tree Pipit           | SBL, Red         |
| <i>Asio flammeus</i>            | Short-eared Owl      | SBL, Amber       |
| <i>Bucephala clangula</i>       | Goldeneye            | WCA1, Amber      |
| <i>Calidris alpina</i>          | Dunlin               | SBL, Amber       |
| <i>Calidris ferruginea</i>      | Curlew Sandpiper     | Amber            |
| <i>Charadrius dubius</i>        | Little Ringed Plover | WCA1             |
| <i>Charadrius hiaticula</i>     | Ringed Plover        | Red              |
| <i>Circus cyaneus</i>           | Hen Harrier          | WCA1, SBL, Red   |
| <i>Cygnus cygnus</i>            | Whooper Swan         | WCA1, SBL, Amber |
| <i>Egretta garzetta</i>         | Little Egret         | Amber            |
| <i>Emberiza schoeniclus</i>     | Reed Bunting         | SBL, Amber       |
| <i>Falco columbarius</i>        | Merlin               | WCA1, SBL, Red   |
| <i>Falco tinnunculus</i>        | Kestrel              | SBL, Amber       |
| <i>Fringilla montifringilla</i> | Brambling            | WCA1, SBL        |
| <i>Gavia arctica</i>            | Black-throated diver | WCA1, SBL, Amber |
| <i>Gavia immer</i>              | Great Northern Diver | WCA1, SBL, Amber |

| Latin Name                            | Common Name          | Designation      |
|---------------------------------------|----------------------|------------------|
| <i>Accipiter gentilis</i>             | Goshawk              | WCA1             |
| <i>Actitis hypoleucos</i>             | Common Sandpiper     | Amber            |
| <i>Gavia stellata</i>                 | Red-throated diver   | WCA1, SBL, Green |
| <i>Hirundo rustica</i>                | Swallow              | Amber            |
| <i>Lagopus lagopus subsp. scotica</i> | Red Grouse (scotica) | SBL, Amber       |
| <i>Limosa limosa</i>                  | Black-tailed Godwit  | WCA1, SBL, Red   |
| <i>Linaria cannabina</i>              | Linnet               | SBL, Red         |
| <i>Loxia curvirostra</i>              | Common Crossbill     | WCA1             |
| <i>Muscicapa striata</i>              | Spotted Flycatcher   | SBL, Red         |
| <i>Numenius arquata</i>               | Curlew               | SBL, Red         |
| <i>Pandion haliaetus</i>              | Osprey               | WCA1, SBL, Amber |
| <i>Phoenicurus phoenicurus</i>        | Redstart             | Amber            |
| <i>Picus viridis</i>                  | Green Woodpecker     | Amber            |
| <i>Porzana porzana</i>                | Spotted Crake        | WCA1, SBL, Amber |
| <i>Pyrrhula pyrrhula</i>              | Bullfinch            | SBL, Amber       |
| <i>Riparia riparia</i>                | Sand Martin          | Amber            |
| <i>Tachybaptus ruficollis</i>         | Little Grebe         | Amber            |
| <i>Tringa glareola</i>                | Wood Sandpiper       | WCA1, SBL, Amber |
| <i>Tringa nebularia</i>               | Greenshank           | WCA1, Amber      |
| <i>Tringa ochropus</i>                | Green Sandpiper      | WCA1, SBL, Amber |
| <i>Turdus philomelos</i>              | Song Thrush          | SBL, Red         |
| <i>Turdus pilaris</i>                 | Fieldfare            | WCA1, Red        |
| <i>Vanellus vanellus</i>              | Lapwing              | SBL, Red         |

## APPENDIX E. BTO BIRD CODES

### BTO SPECIES CODES

|    |                           |    |                           |    |                        |    |                     |
|----|---------------------------|----|---------------------------|----|------------------------|----|---------------------|
| AC | Arctic Skua               | GA | Gadwall                   | LE | Long-eared Owl         | SM | Sand Martin         |
| AE | Arctic Tern               | GX | Gannet                    | LT | Long-tailed Tit        | SS | Sanderling          |
| AV | Avocet                    | GW | Garden Warbler            | MG | Magpie                 | TE | Sandwich Tern       |
| BO | Barn Owl                  | GY | Garganey                  | MA | Mallard                | VI | Savi's Warbler      |
| BY | Barnacle Goose            | GC | Goldcrest                 | MN | Mandarin Duck          | SQ | Scarlet Rosefinch   |
| BA | Bar-tailed Godwit         | EA | Golden Eagle              | MX | Manx Shearwater        | SP | Scaup               |
| BR | Bearded Tit               | OL | Golden Oriole             | MR | Marsh Harrier          | CY | Scottish Crossbill  |
| BS | Berwick's Swan            | GF | Golden Pheasant           | MT | Marsh Tit              | SW | Sedge Warbler       |
| BI | Bittern                   | GP | Golden Plover             | MW | Marsh Warbler          | NS | Serin               |
| BK | Black Grouse              | GN | Goldeneye                 | MP | Meadow Pipit           | SA | Shag                |
| TY | Black Guillemot           | GO | Goldfinch                 | MU | Mediterranean Gull     | SU | Shelduck            |
| BX | Black Redstart            | GD | Goosander                 | ML | Merlin                 | SX | Shorelark           |
| BJ | Black Tern                | GI | Goshawk                   | M. | Mistle Thrush          | SE | Short-eared Owl     |
| B. | Blackbird                 | GH | Grasshopper Warbler       | MO | Montagu's Harrier      | SV | Shoveler            |
| BC | Blackcap                  | GB | Great Black-backed Gull   | MH | Moorhen                | SK | Siskin              |
| BH | Black-headed Gull         | GG | Great Crested Grebe       | MS | Mute Swan              | S. | Skylark             |
| BN | Black-necked Grebe        | ND | Great Northern Diver      | N. | Nightingale            | SZ | Slavonian Grebe     |
| BW | Black-tailed Godwit       | NX | Great Skua                | NJ | Nighthjar              | SN | Snipe               |
| BV | Black-throated Diver      | GS | Great Spotted Woodpecker  | NH | Nuthatch               | SB | Snow Bunting        |
| BT | Blue Tit                  | GT | Great Tit                 | OP | Osprey                 | ST | Song Thrush         |
| BU | Bluethroat                | GE | Green Sandpiper           | OC | Oystercatcher          | SH | Sparrowhawk         |
| BL | Brambling                 | G. | Green Woodpecker          | PX | Peafowl/Peacock        | AK | Spotted Crake       |
| BG | Brent Goose               | GR | Greenfinch                | PE | Peregrine              | SF | Spotted Flycatcher  |
| BF | Bullfinch                 | GK | Greenshank                | PH | Pheasant               | DR | Spotted Redshank    |
| BZ | Buzzard                   | H. | Grey Heron                | PF | Pied Flycatcher        | SG | Starling            |
| CG | Canada Goose              | P. | Grey Partridge            | PW | Pied Wagtail           | SD | Stock Dove          |
| CP | Capercaillie              | GV | Grey Plover               | PG | Pink-footed Goose      | SC | Stonechat           |
| C. | Carrian Crow              | GL | Grey Wagtail              | PT | Pintail                | TN | Stone-curlew        |
| CW | Cetti's Warbler           | GJ | Greylag Goose             | PO | Pachard                | TM | Storm Petrel        |
| CH | Chaffinch                 | GU | Guillemot                 | PM | Ptarmigan              | SL | Swallow             |
| CC | Chiffchaff                | FW | Guineafowl (Helmeted)     | PU | Puffin                 | SI | Swift               |
| CF | Chough                    | HF | Hawfinch                  | PS | Purple Sandpiper       | TO | Tawny Owl           |
| CL | Cirl Bunting              | HH | Hen Harrier               | Q. | Quail                  | T. | Teal                |
| CT | Coal Tit                  | HG | Herring Gull              | RN | Raven                  | TK | Temminck's Stint    |
| CD | Collared Dove             | HY | Hobby                     | RA | Razorbill              | TP | Tree Pipit          |
| CM | Common Gull               | HZ | Honey Buzzard             | RG | Red Grouse             | TS | Tree Sparrow        |
| CS | Common Sandpiper          | HC | Hooded Crow               | KT | Red Kite               | TC | Treecreeper         |
| CX | Common Scoter             | HP | Hoopoe                    | ED | Red-backed Shrike      | TU | Tufted Duck         |
| CN | Common Tern               | HM | House Martin              | RM | Red-breasted Merganser | TT | Turnstone           |
| CO | Coot                      | HS | House Sparrow             | RQ | Red-crested Pochard    | TD | Turtle Dove         |
| CA | Cormorant                 | JD | Jackdaw                   | FV | Red-footed Falcon      | TW | Twite               |
| CB | Corn Bunting              | J. | Jay                       | RL | Red-legged Partridge   | WA | Water Rail          |
| CE | Corncrake                 | K. | Kestrel                   | NK | Red-necked Phalarope   | W. | Wheatear            |
| CI | Crested Tit               | KF | Kingfisher                | LR | Redpoll (Lesser)       | WM | Whimbrel            |
| CR | Crossbill (Common)        | KI | Kittiwake                 | RK | Redshank               | WC | Whinchat            |
| CK | Cuckoo                    | KN | Knot                      | RT | Redstart               | WG | White-fronted Goose |
| CU | Culw                      | LM | Lady Amherst's Pheasant   | RH | Red-throated Diver     | WH | Whitethroat         |
| DW | Dartford Warbler          | LA | Lapland Bunting           | RE | Redwing                | WS | Whooper Swan        |
| DI | Dipper                    | L. | Lapwing                   | RB | Reed Bunting           | WN | Wigeon              |
| DO | Dotterel                  | TL | Leach's Petrel            | RW | Reed Warbler           | WT | Willow Tit          |
| DN | Dunlin                    | LB | Lesser Black-backed Gull  | RZ | Ring Ouzel             | WW | Willow Warbler      |
| D. | Duncock                   | LS | Lesser Spotted Woodpecker | RP | Ringed Plover          | OD | Wood Sandpiper      |
| EG | Egyptian Goose            | LW | Lesser Whitethroat        | RI | Ring-necked Parakeet   | WO | Wood Warbler        |
| E. | Eider                     | LI | Linnet                    | R. | Robin                  | WK | Woodcock            |
| FP | Feral Pigeon              | ET | Little Egret              | DV | Rock Dove (not feral)  | WL | Woodlark            |
| ZL | Feral/hybrid goose        | LG | Little Grebe              | RC | Rock Pipit             | WP | Woodpigeon          |
| ZF | Feral/hybrid mallard type | LU | Little Gull               | RO | Rook                   | WR | Wren                |
| FF | Fieldfare                 | LO | Little Owl                | RS | Roseate Tern           | WY | Wryneck             |
| FC | Firecrest                 | LP | Little Ringed Plover      | RY | Ruddy Duck             | YW | Yellow Wagtail      |
| F. | Fulmar                    | AF | Little Tern               | RU | Ruff                   | Y. | Yellowhammer        |

If you are not submitting your data electronically using BBS-Online, please return your Field Recording Sheets to your Regional Organiser with your other BBS forms. If you would like to submit your results on BBS-Online, please inform your RO, then visit [www.bto.org/bbs](http://www.bto.org/bbs).

## APPENDIX F. Glossary of abbreviations used in this report

| Code       | Full Title  | Explanation   |
|------------|---|---|
| Amber      | Amber list  | Amber listed species have a population status in the UK of medium conservation concern.   |
| BAP        | Biodiversity Action Plan  | A plan that identifies threats to significantly important species and habitats and sets out targets and actions to enhance or maintain biodiversity.  |
| GB RDB     | Red Data Book Species   | Species identified in one of the UK Red Data 2001.  |
| GB RDB(CR) | Critically Endangered   | An IUCN Red List designation for species at an extremely high risk of extinction.   |
| GB RDB(EN) | Endangered  | An IUCN Red List designation for species at a very high risk of extinction.   |
| GB RDB(VU) | Vulnerable  | An IUCN Red List designation for species at high risk of extinction.  |
| HAP        | Habitat Action Plan   | A plan that identifies threats to a priority habitat and sets out targets and actions to enhance or maintain that habitat.  |
| IUCN       | International Union for Conservation of Nature and Natural Resources (also known as The World Conservation union) | A worldwide partnership and conservation network to influence, encourage and assist societies throughout the world to conserve the integrity and diversity of nature and to ensure that any use of natural resources is equitable and ecologically sustainable. |
| LBAP       | Local Biodiversity Action Plan  | A plan that identifies threats to locally important species and habitats and sets out targets and actions in Species Action Plans and Habitat Action Plans to enhance or maintain biodiversity at the county or regional level.                                 |
| LHAP       | Local Habitat Action Plan   | A plan that identifies threats to a locally important priority habitat and sets out targets and actions to enhance or maintain that habitat.  |
| LSAP       | Local Species Action Plan   | A plan that identifies threats to locally important species and sets out targets and actions to prevent losing that species from the local area.  |
| NR         | Nationally Rare   | Species in 15 or fewer hectads in Great Britain.  |
| NS         | National Scarce   | Species in 16-100 hectads in Great Britain.   |
| Red        | Red List  | Red listed species have a population status in the UK with high conservation concern.   |
| SAP        | Species Action Plan   | A plan that identifies threats to significantly important species and sets out targets and actions to prevent losing that species to extinction.  |

| Code  | Full Title   | Explanation  |
|-------|--|--|
| Amber | Amber list   | Amber listed species have a population status in the UK of medium conservation concern.  |
| BAP   | Biodiversity Action Plan   | A plan that identifies threats to significantly important species and habitats and sets out targets and actions to enhance or maintain biodiversity.   |
| SBL   | Scottish Biodiversity List   | A list of animals, plants and habitats that Scottish Ministers consider to be of principal importance for biodiversity conservation in Scotland.   |
| WCA   | The Wildlife & Countryside Act 1981 as amended by The Wildlife and Natural Environment (Scotland) Act 2011               | Containing 4 Parts and 17 Schedules, the Act covers protection of wildlife (birds, and some animals and plants), the countryside, National Parks, and the designation of protected areas, and public rights of way. All wild plants in Britain are protected from intentional uprooting by an unauthorized person, but land owners, land occupiers, persons authorized by either of these or persons authorized in writing by the Local Authority for the area are exempt. Protection for some species may be limited to certain Sections of the Act (e.g. S13(2).   |
| WCA1  | Schedule 1 of The Wildlife & Countryside Act 1981 as amended by The Wildlife and Natural Environment (Scotland) Act 2011 | <p>This Schedule lists birds always protected by special penalties, but virtually all wild birds have some protection in law. Acts which are prohibited for all wild birds (except derogated 'pest' species) include intentional killing, injuring or taking; taking, damaging or destroying nests in use or being built; taking or destroying eggs; possessing or having control of (with certain exceptions but including live for dead birds, parts or derivative); setting or permitting certain traps, weapons, decoys or poisons. Selling, offering or exposing for sale, possessing or transporting for sale any live wild bird, egg or part of an egg or advertising any of these for sale, or dead wild bird including parts or derivatives are also prohibited. Many birds must be formally registered and ringed if kept in captivity.</p> <p>Schedule I WCA birds are additionally protected from intentional or reckless disturbance while building a nest, or when such a bird is in, on or near a nest containing eggs or young, or intentional or reckless disturbance of dependent young.</p> |

| Code  | Full Title   | Explanation  |
|-------|--|--|
| Amber | Amber list   | Amber listed species have a population status in the UK of medium conservation concern.  |
| BAP   | Biodiversity Action Plan   | A plan that identifies threats to significantly important species and habitats and sets out targets and actions to enhance or maintain biodiversity.   |
| WCA5  | Schedule 5 of The Wildlife & Countryside Act 1981 as amended by The Wildlife and Natural Environment (Scotland) Act 2011 | Schedule 5 animals are protected from intentional killing, injuring or taking; possessing (including parts or derivatives); intentional or reckless damage, destruction or obstruction of any structure or place used for shelter or protection; selling, offering or exposing for sale, possessing or transporting for the purpose of sale (alive or dead, including parts or derivatives). Protection of some species is limited to certain Sections of the Act (e.g. S9(1), S9(4a), S9(4b), S9(5)). |



## PRE-AFFORESTATION ARCHAEOLOGICAL WALKOVER SURVEY, ARIOGAN, ARGYLL

Client: Forestry and Land Scotland

Prepared by: Clare Ellis and Hilary McLauchlan of Argyll Archaeology  
June 2024

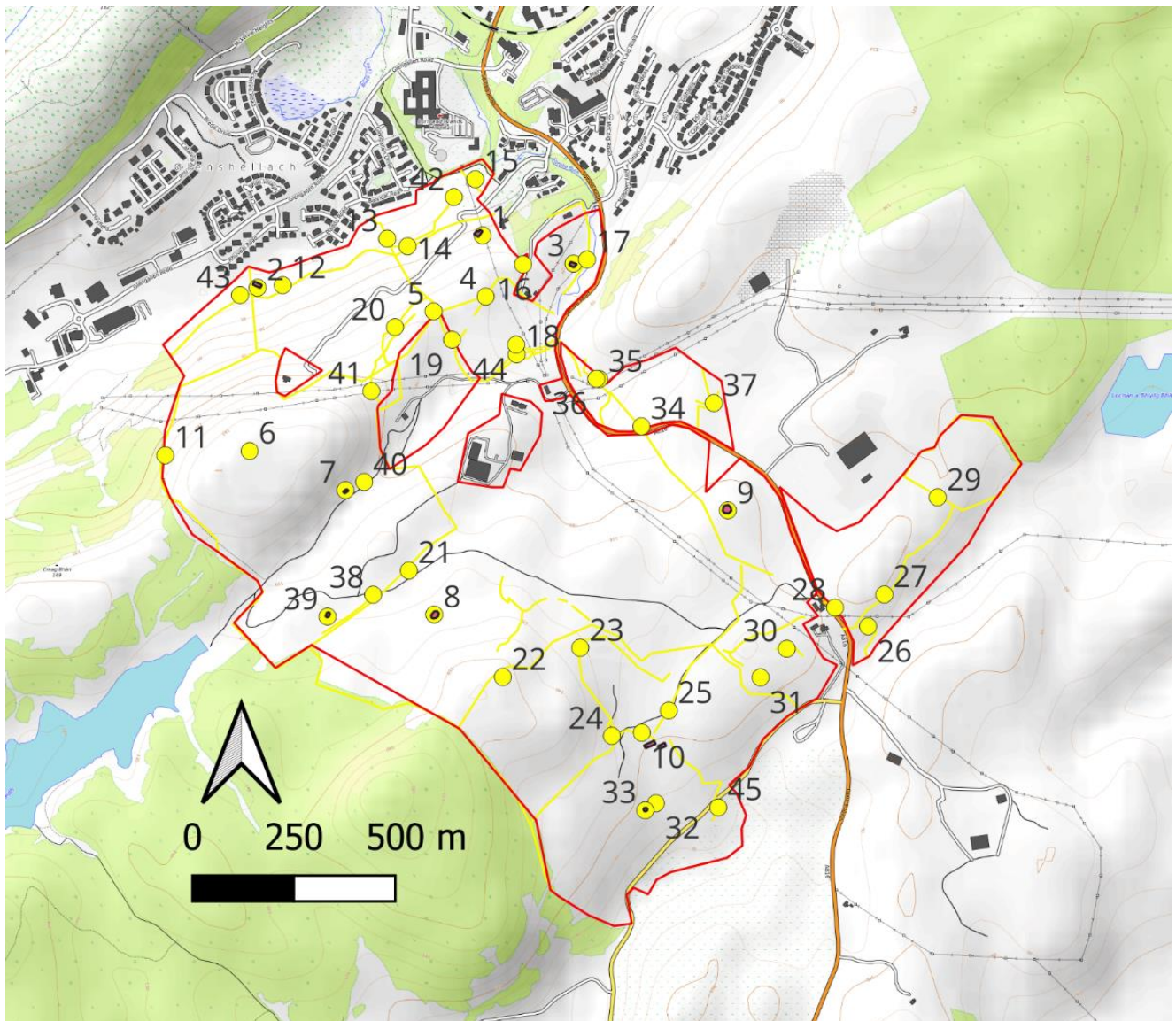
OASIS No: argyllar1-525923





## 0. NON-TECHNICAL SUMMARY

- 0.1 A comprehensive pre-afforestation walkover survey was conducted over c. 175 hectares of land located on the south side of Oban, near Soroba and Ariogan, Argyll (Fig. 1). The programme of archaeological work was commissioned by Forestry and Land Scotland. A number of sites of archaeological or historical significance were recorded and these include; burial cairns; a farmstead; buildings; a series of 19<sup>th</sup> century banks/enclosures and stone walls; and old tracks. The recommendations of this report (see Appendix 1) follow the Forestry Commission Scotland Archaeological Survey Guidelines (Ritchie 2012).
- 0.2 It is the recommendation of this report that an appropriate buffer zone of no physical disturbance is maintained around all the significant features (see Appendix 1 for details).



*Fig. 1. Location of surveyed area with sites of archaeological and historical interest shown in yellow.*

## 1. INTRODUCTION AND ARCHAEOLOGICAL BACKGROUND

- 1.1 The surveyed area lies to the south of Oban (Fig. 1). The crenulated nature of the geology has resulted in a series of ridges and glen orientated NE/SW and which are particularly pronounced on the north side of the area where the bedrock geology changes from andesite and basalt of the Lorn Plateau Volcanic Formation to conglomerate of the Lower Old Red Sandstone Group.
- 1.2 The northern portion of the area was within the Glenshellach development area as surveyed for archaeology in 1991 (Bonsall & Robinson 1992). Previously recorded archaeological sites within the current survey area include: two scheduled monuments - burial cairn SM4302 (Site 8) and burial cairn SM4161 (Site 9); a number of buildings (Sites 1-4); two shielings (Sites 5 & 7); and a farmstead (Site 10).

## 2. OBJECTIVES

- 2.1 The archaeological objectives were to:
  - a. determine the presence or absence of surface archaeological features within the confines of the proposed scheme;
  - b. propose further stages of archaeological work as required;
  - c. propose suitable mitigation.

## 3. METHOD AND GROUND COVER

- 3.1 A desk-based assessment was undertaken prior to the walkover survey. This comprised the online consultation of historical maps, aerial photographs, Pastmap, statistical accounts and any other relevant documents.
- 3.2 The walkover survey was conducted over *c.* 175 hectares. All sites were recorded using a handheld gps, notebook and photography.
- 3.3 The area surveyed comprised a series of NE/SW orientated ridges and glens which increased in height towards the south of the area. The ground cover largely comprised high ungrazed grasses and wild flowers. There were also large stands of bracken and much of the northern side was covered with bracken restricting access and the visibility of potential features. There were pockets of scrub and native woodland, again this was particularly dense on the north side of the area and there was a band of dense woodland to the north of the road to Lerags which formed the southern boundary of the area. The weather was mixed.

## 4. RESULTS AND DISCUSSION

- 4.1 The two scheduled monuments (Sites 8 & 9) are designated as prehistoric burial cairns. However, at the time of the survey all that could be seen at Site 9 was a flattish but undulating grass covered area located on top of a low hillock while Site 8 comprised a low oval stoney mound with a slightly sunken centre with a narrow 'footpath' across its centre; neither monument was obviously a burial

cairn. An oval mound, Site 39 was recorded as a site of potential. Natural rock is visible at the base of the mound but the shape of the mound is such that it may have been modified by human hand; a similar shaped mound on Canassarie Farm at the north end of Kilmartin glen was found to have a cist burial inserted into its summit.



*Fig. 2. Burial Cairn, Site 8.*

- 4.2 Roy's Military Map of 1747-52 shows the northern side of the surveyed area to be under arable cultivation and the settlement of Soroba located either side of Soroba Burn; this settlement appears to be located outside the surveyed area with the southern component probably located under Soroba House.
- 4.3 The farmstead of Acheasdale (Site 10) is depicted as two parallel roofed structures, the northern having an unroofed section on its west end and the southern smaller structure has an enclosure on its south side (Fig. 3). A possible square unroofed structure is also shown on the north side of the track. Currently the farmstead is covered by bracken and although rubble was felt underfoot the footprint of the structures was not readily discernible. The settlement is described in the Ordnance Survey Name Book as 'A Farm house with small croft of land attached situated a short distance South-west of Ariogan the property of G.G McKay Esqr.'

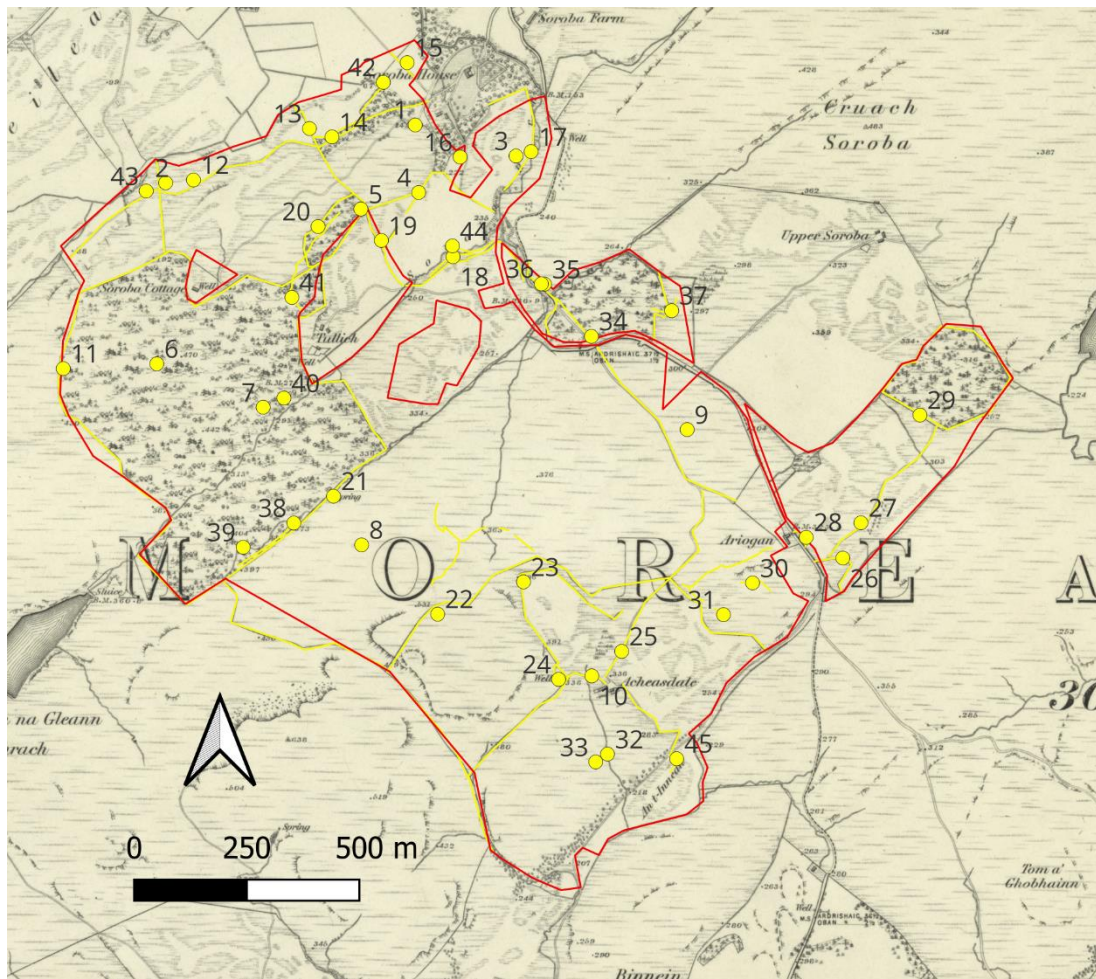


*Fig. 3. Site 10, Acheasdale.*



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- 4.4 The 1<sup>st</sup> edition Ordnance Survey map (Argyllshire Sheet XCVIII 1874) shows a series of field boundaries (Fig. 4) and some of these were visible and recorded as banks or walls while others were not visible (Appendix 1 for details). Similarly a series of tracks are depicted on the 1<sup>st</sup> edition map and the majority of these were clearly visible during the walkover. Interestingly the dwelling (Site 2) is not shown on the 1<sup>st</sup> edition OS map but it is shown on the 2<sup>nd</sup> edition of 1900 (survey in 1897) indicating that it was built between 1870 and 1897.



*Fig. 4. The sites overlaying the 1<sup>st</sup> edition Ordnance Survey map (Argyllshire Sheet XCVIII 1874). Reproduced with the permission of the National Library of Scotland.*

- 4.5 The only interesting newly discovered site was a circular enclosure (Site 33). It was built from stone and turf and was located on the southern side of a rocky ridge (Fig. 5). The enclosure may have been used as house stock and it may date from the pre-improvement period, i.e. 16<sup>th</sup> or 17<sup>th</sup> century.



*Fig. 5. Site 33, probable circular stock enclosure.*

- 4.6 The two structures, Sites 4 and 5 previously recorded by Bonsall & Robinson (1992) could not be located; similarly the clearance cairn they recorded (Site 6) could not be located.

## 5.0 MITIGATION

- 5.1 Planting of trees or any other significant change to the immediate landscape surrounding the scheduled monuments Site 8 & 9 is likely to have a visual impact on each of their setting. Therefore, it is recommended that Historic Environment Scotland are consulted for their view on the potential impact of any land management plan prior to its implementation.
- 5.2 In the event that the surveyed area, or parts of it, are to be afforested then where possible the sites as identified within the boundary of the scheme should be protected from physical damage by an appropriate buffer zone (see Appendix 1) in which no ground breaking activity or the tracking of plant is allowed during all preparatory and forestry works (detailed in Appendix 1, Gazetteer). The proposed buffer zones are in line with the guidance of the Forestry and Land Scotland Archaeological Survey Guidelines (Ritchie 2012).
- 5.3 Settlement remains dating from the Neolithic, Bronze Age and Iron Age have been excavated in Glenshellach, located just on the north boundary of the surveyed area and within Oban evidence of prehistoric burial has been discovered in the form of cordoned urns as well as human remains found within caves. Therefore, there is the potential for buried archaeological deposits to survive beneath the topsoil in any of the more sheltered areas of the surveyed area. The potential for buried archaeology should be assessed prior to undertaking any significant ground breaking works, such as the machine excavation of new tracks or the creation of new areas of hard standing. Furthermore, in the advent of afforestation it may be prudent to brief the

mounding and planting team to the potential of archaeological material being exposed in freshly dug soil. Where artefacts are recovered these should be reported to Treasure Trove Scotland.

## 6.0 REFERENCES

Bonsall, C & Robinson, M 1992 *University of Edinburgh. Archaeological survey of the Glenshellach development area, Oban: Report to Historic Scotland.*

Ritchie, M 2012 *Archaeological Survey Guidelines for work to advance the Heritage module*

*Appendix 1: Gazetteer of archaeological and historical sites*

The gazetteer has been compiled from a walkover survey. Each site No. is unique and corresponds to the numbered sites shown in Fig. 2.

FORMAT

The format of each site entry in the gazetteer is in the order given:

Name  
Location - National grid reference (NGR)  
Site type  
Character  
Date  
State of preservation  
Significance  
Mitigation

*Criteria used to quantify archaeological and historic sites*

The description of *Character* and *Extent* of the sites is taken from documentary and cartographic records, where they exist, and/or from direct observation.

Determination of the *State of Preservation* of an archaeological site is often hard to ascertain without the aid of intrusive archaeological works. A site that has been previously attributed some regional or national significance is regarded as in a good state of preservation, unless there is documentary or visual evidence to the contrary. For a site of Local Importance/Significance the *State of Preservation* refers to the physical condition of the visual remains and the degree to which the original site appears to be intact and unaltered, Table 1. Where no assessment can be made as to the current condition then the *State of Preservation* is referred to as Unknown.

*Table 1. The definition of the State of Preservation*

| <i>State of Preservation</i> | <i>Criteria</i>   |
|------------------------------|---|
| Good                         | World Heritage Site; Scheduled Ancient Monument or Regionally Important site. Local site with good physical preservation. |
| Moderate                     | Local site with limited denudation/erosion etc  |
| Poor                         | Local site with significant denudation/erosion etc  |
| Unknown                      | No assessment can be made (cropmark etc)  |

Sites are assigned a level of *Significance* on a scale of 'less than local' to 'international' (Table 2). The level assigned is based upon statutory designation and/or assessed cultural heritage importance. Many sites of cultural heritage significance are not currently afforded any statutory protection through designation. For the purposes of this assessment, these undesignated sites were assigned a level of importance using professional judgment.

*Table 2: Definition of the Significance of an archaeological site*

| <i>Significance</i> | <i>Criteria</i>   |
|---------------------|---|
| International       | World Heritage Site   |
| National            | Scheduled Ancient Monument (SAM)  |
| Regional            | Some undesignated sites assessed as being of Regional Importance  |
| Local               | Some designated sites assessed as being of Local Importance   |
| Other               | Sites either already badly damaged destroyed or whose historic value is too slight for inclusion in a higher class. |

**Walkover survey, Ariogan, Oban, Argyll- 837**

*Gazetteer*

| Site No. | Easting | Northing | Site type | Character   | Date          | State of preservation | Significance | Mitigation  | HER | Canmore Number | NMRS No.  | SM |
|----------|---------|----------|-----------|---|---------------|-----------------------|--------------|---|-----|----------------|-----------|----|
| 1        | 185770  | 728240   | Building  | Brick and breeze block built and corrugated iron roofed farm shed.  | 20th century  | Good                  | Other        | None  |     | 80605          | NM82NE 71 |    |
| 2        | 185210  | 728140   | Building  | With walls 0.8m wide, the front and back walls stand highest at 1.6m high and 0.7m wide. Mortared stone walls. Farmhouse, 7m wide and 12m long with an extension/additional building to the NW measuring 6m long and 7m wide and 2 small porch like structures to the S side of each of the rectangles. | Post-medieval | Moderate              | Regional     | 10m buffer zone of no physical disturbance  |     | 80617          | NM82NE 83 |    |
| 3        | 185990  | 728160   | Building  | Corrugated iron and timber roof, collapsed on N side. 2 parallel walls and a semi circular wall, hidden in bracken so quite difficult to see. Wall up to 0.6m high . Shown on OS map. An agricultural shed. Modern.   | 20th century  | Poor                  | Other        | None  |     | 80619          | NM82NE 85 |    |
| 4        | 185770  | 728090   | Building  | Nothing visible in the field.   | Unknown       | Unknown               | Other        | Check general location prior to planting. If structure is found then apply 10m buffer zone of no physical disturbance |     | 80618          | NM82NE 84 |    |
| 5        | 185640  | 728060   | Shieling  | Nothing to be seen at this grid reference but could be under gorse.   | Unknown       | Unknown               | Other        | Check general location prior to planting. If structure is found then apply 10m buffer zone of no physical disturbance |     | 80600          | NM82NE 66 |    |
| 6        | 185170  | 727740   | Cairn     | Nothing could be seen at this location  | Unknown       | Unknown               | Other        | Check general location prior to planting. If structure is found then apply 5m buffer zone of no physical disturbance  |     | 80633          | NM82NE 97 |    |



**Walkover survey, Ariogan, Oban, Argyll- 837**

| Site No. | Easting | Northing | Site type     | Character  | Date          | State of preservation | Significance | Mitigation                                 | HER | Canmore Number | NMRS No.  | SM   |
|----------|---------|----------|---------------|--|---------------|-----------------------|--------------|--|-----|----------------|-----------|------|
| 7        | 185401  | 727632   | Shieling      | Shieling platform set on a steep slope above a small burn (above track). Flat stony area of ground cut out of and revetted against the slope. Measures 8m x 4m.  | Post-medieval | Poor                  | Local        | 10m buffer zone of no physical disturbance |     | 80601          | NM82NE 67 |      |
| 8        | 185604  | 727316   | Cairn, burial | The irregularly shaped stony mound situated on a gently sloping shoulder of moorland some 840 m W of Ariogan farmhouse appears to represent the wasted remains of a burial-cairn of prehistoric date. It measures about 6 m across, stands to a height of 0.6 m, and has been severely disturbed by stone-robbing. 5m x 4.5m and 0.5m high low mound, irregular shape with a sunken centre and a path/motorbike track across its centre.   | Prehistoric   | Poor                  | National     | 20m buffer zone of no physical disturbance |     | 22904          | NM82NE 29 | 4302 |
| 9        | 186339  | 727535   | Cairn, burial | On the summit of a low hill about 280 m NNW of Ariogan farmhouse there are the much-denuded remains of what has probably been a prehistoric cairn. Roughly circular on plan, it appears as a largely grass-grown stony mound measuring approximately 4.9 m in diameter and not more than 0.3 m in height. Where the mound has been disturbed by recent stone-robbing, it can be seen to consist mainly of rounded boulders of no great size. On top of knoll, grass covered flat-topped hill but no obvious cairn could be seen on this visit. | Prehistoric   | Poor                  | National     | 20m buffer zone of no physical disturbance |     | 22903          | NM82NE 28 | 4161 |

**Walkover survey, Ariogan, Oban, Argyll- 837**

| Site No. | Easting | Northing | Site type | Character  | Date          | State of preservation | Significance | Mitigation   | HER | Canmore Number | NMRS No.   | SM |
|----------|---------|----------|-----------|--|---------------|-----------------------|--------------|--|-----|----------------|------------|----|
| 10       | 186100  | 727000   | Farmstead | A farmstead, Acheasdale, comprising one unroofed building, one partially roofed long building, one roofed building and one enclosure is depicted on the 1st edition of the OS 6-inch map (Argyllshire 1874, sheet xcvi). One enclosure annotated as a Sheep Wash is shown on the current edition of the OS 1:10000 map (1977). Assuming as per 1st edition OS map as can't discern anything within bracken. Traces of walls can be felt underfoot but can't be seen within the high bracken. | Post-medieval | Moderate              | Regional     | 10m buffer zone of no physical disturbance                                       |     | 152213         | NM82NE 106 |    |
| 11       | 184962  | 727740   | Wall      | Enclosure, on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi) surrounding woodland. Low stone wall.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |            |    |
| 12       | 185272  | 728143   | Track     | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Line of old track shown on map. 1.5 to 2m wide track, now a footpath.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |            |    |
| 13       | 185535  | 728244   | Boundary  | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Beyond the short stretch of stone wall at its northern nothing else was visible in the field.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |            |    |
| 14       | 185584  | 728223   | Boundary  | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Nothing visible in the field.   | Post-medieval | Poor                  | Local        | If this is observed when planting then 5m buffer zone of no physical disturbance |     |                |            |    |
| 15       | 185759  | 728379   | Track     | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Line of old track shown on map. Now part of footpath.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |            |    |
| 16       | 185866  | 728164   | Pond      | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Nothing visible in the field.   | Post-medieval | Poor                  | Other        | None   |     |                |            |    |
| 17       | 186024  | 728168   | Boundary  | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Nothing visible in the field.   | Post-medieval | Poor                  | Other        | If this is observed when planting then 5m buffer zone of no physical disturbance |     |                |            |    |

**Walkover survey, Ariogan, Oban, Argyll- 837**

| Site No. | Easting | Northing | Site type | Character   | Date          | State of preservation | Significance | Mitigation   | HER | Canmore Number | NMRS No. | SM |
|----------|---------|----------|-----------|---|---------------|-----------------------|--------------|--|-----|----------------|----------|----|
| 18       | 185839  | 727944   | Boundary  | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). A short stretch of bank visible on aerial photograph to the north of the location of the 1st ed OS map.  | Post-medieval | Poor                  | Other        | If this is observed when planting then 5m buffer zone of no physical disturbance |     |                |          |    |
| 19       | 185682  | 727988   | Boundary  | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Nothing visible in the field.  | Post-medieval | Poor                  | Other        | If this is observed when planting then 5m buffer zone of no physical disturbance |     |                |          |    |
| 20       | 185543  | 728026   | Enclosure | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Low stone wall, grass covered 0.8m wide and 0.2m high.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 21       | 185547  | 727427   | Bank      | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Bank, very faint, 1m wide and 0.20m high.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 22       | 185765  | 727154   | Enclosure | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). The southern part of this site is shown on the 1st ed map, but this section could not be seen in the field. To the north bank 0.3m high and 1.2m wide. Stone and turf, splits with one section heading north the other east. | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 23       | 185959  | 727216   | Enclosure | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Irregular stone walled enclosure made from large boulders. Walls 0.3m high and 0.8m wide.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 24       | 186026  | 726996   | Well      | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Nothing to see at this location, but boggy ground can be seen to the NE.   | Post-medieval | Poor                  | Other        | None   |     |                |          |    |
| 25       | 186169  | 727051   | Track     | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Old track, 1.5m wide leading up to the farmstead from the SW.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 26       | 186670  | 727233   | Enclosure | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Nothing visible in the field.  | Post-medieval | Poor                  | Other        | If this is observed when planting then 5m buffer zone of no physical disturbance |     |                |          |    |

Walkover survey, Ariogan, Oban, Argyll- 837

| Site No. | Easting | Northing | Site type | Character  | Date          | State of preservation | Significance | Mitigation   | HER | Canmore Number | NMRS No. | SM |
|----------|---------|----------|-----------|--|---------------|-----------------------|--------------|--|-----|----------------|----------|----|
| 27       | 186714  | 727309   | Track     | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Nothing visible in the field.   | Post-medieval | Poor                  | Other        | If this is observed when planting then 5m buffer zone of no physical disturbance |     |                |          |    |
| 28       | 186591  | 727283   | Enclosure | on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi). Nothing visible in the field.   | Post-medieval | Poor                  | Other        | If this is observed when planting then 5m buffer zone of no physical disturbance |     |                |          |    |
| 29       | 186857  | 727541   | Enclosure | Enclosure bank as shown on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi), very ephemeral and barely visible.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 30       | 186467  | 727188   | Bank      | 1m wide and 0.7m high, turf bank, oriented E/W then turns to the S.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 31       | 186399  | 727121   | Bank      | Turf and stone bank, oriented NW/SE, 1 - 1.2m wide and 0.3m high.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 32       | 186126  | 726825   | Wall      | Boulder built wall, tumbled, 0.4m high and 0.4m wide remaining.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 33       | 186099  | 726809   | Structure | Enclosure on top of knoll, oval with rounded corners and stone and turf walls. 0.5m high and 1m wide. Enclosure measures 6.5m E/W x 7.5m N/S with an entrance on the S side. | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 34       | 186137  | 727752   | Track     | Route of the track that runs from site 10.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 35       | 186039  | 727873   | Old road  | Line of old Oban road, much disturbed by new overhead cable works, 4m wide, shown on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi)                                | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 36       | 186032  | 727874   | Bank      | Short stretch of stoney bank running NE towards Oban, 0.3m high and 0.8m wide.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |
| 37       | 186318  | 727800   | Bank      | Stone bank/enclosure, shown on OS map. 0.5m high and 1m wide.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance  |     |                |          |    |

**Walkover survey, Ariogan, Oban, Argyll- 837**

| Site No. | Easting | Northing | Site type | Character   | Date          | State of preservation | Significance | Mitigation                                | HER | Canmore Number | NMRS No. | SM |
|----------|---------|----------|-----------|---|---------------|-----------------------|--------------|---|-----|----------------|----------|----|
| 38       | 185456  | 727372   | Wall      | Drystone constructed, runs along fence line. Could be part of site 22. 0.5m wide and 0.3m high.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance |     |                |          |    |
| 39       | 185341  | 727324   | Mound     | Mound with rock outcropping on N side. Oval measuring 12m x 7.5m and 1.5m high. Could be natural but very flat-topped and so could have been modified into a burial monument such as that at Carnasserie. | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance |     |                |          |    |
| 40       | 185448  | 727650   | Platform  | Quarry upcast, measures 4.5m x 3.5m and is set on a slope less far above the track than that at site 7. Faint traces of banks on each side and a sunken centre.   | Post-medieval | Poor                  | Other        | None                                      |     |                |          |    |
| 41       | 185477  | 727872   | Wall      | 0.8m wide and 0.5m high stone and turf wall running downhill towards Glenshellach.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance |     |                |          |    |
| 42       | 185704  | 728338   | Wall      | Drystone wall, 0.8m wide and 0.7m high.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance |     |                |          |    |
| 43       | 185166  | 728124   | Bank      | Faintest remnants of stone bank as shown on 1st edition OS 6-inch map (Argyllshire 1874, sheet xcvi), 0.7m wide with stones just visible in footpath.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance |     |                |          |    |
| 44       | 185839  | 727968   | Wall      | Runs above and parallel to burn, 0.5m wide and 0.3m high.   | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance |     |                |          |    |
| 45       | 186279  | 726807   | Track     | Track runs up steep hill, 1.5m wide.  | Post-medieval | Poor                  | Local        | 5m buffer zone of no physical disturbance |     |                |          |    |

*Appendix 2: Photographic record*

| No. | Site No. | Description |
|-----|----------|-------------|
| 1   | 30       | Bank        |
| 2   | 23       | Wall        |
| 3   | 11       | Wall        |
| 4   | 30       | Bank        |
| 5   | 31       | Bank        |
| 6   | 32       | Bank        |
| 7   | 35       | Enclosure   |
| 8   | 10       | Farmstead   |
| 9   | 25       | Track       |
| 10  | 9        | Cairn       |
| 11  | 22       | Bank        |
| 12  | 11       | Wall        |
| 13  | 17       | Cairn       |
| 14  | 21       | Bank        |
| 15  | 34       | Track       |
| 16  | 35       | Road        |
| 17  | 36       | Wall        |
| 18  | 37       | Bank        |
| 19  | 38       | Wall        |
| 20  | 39       | Mound       |
| 21  | 7        | Platform    |
| 22  | 7        | Platform    |
| 23  | 40       | Quarry      |
| 24  | 41       | Bank        |
| 25  | 20       | Wall        |
| 26  | 1        | Building    |
| 27  | 15       | Track       |
| 28  | 42       | Wall        |
| 29  | 11       | Track       |
| 30  | 30       | Building    |
| 31  | 43       | Wall        |
| 32  | 3        | Building    |
| 33  | 44       | Wall        |
| 34  | 29       | Wall        |
| 35  | 29       | Wall        |
| 36  | 45       | Track       |



Walkover survey, Ariogan, Oban, Argyll- 837

Contact sheet :



1 (30) 837



2 (23) 837



3 (11) 837



4 (30) 837



5 (31) 837



6 (32) 837



7 (33) 837



8 (10) 837



9 (26) 837



10 (9) 837



11 (23) 837



12 (11) 837

Walkover survey, Ariogan, Oban, Argyll- 837



13 (8) 837



14 (21) 837



15 (34) 837



16 (35) 837



17 (36) 837



18 (37) 837



19 (38) 837



20 (39) 837



21 (7) 837



22 (7) 837



23 (40) 837



24 (41) 837



Walkover survey, Ariogan, Oban, Argyll- 837



25 (20) 837



26 (1) 837



27 (15) 837



28 (42) 837



29 (12) 837



30 (30) 837



31 (43) 837



32 (3) 837



33 (464) 837



34 (29) 837



35 (29) 837



36 (45) 837

**Walkover survey, Ariogan, Oban, Argyll- 837**

*Appendix 3: DES Entry*

|   |   |
|---|---|
| <b>LOCAL AUTHORITY:</b>   | Argyll  |
| <b>PROJECT TITLE/SITE NAME:</b>   | Ariogan   |
| <b>PROJECT CODE:</b>  | 837   |
| <b>PARISH:</b>  | Kilmore and Kilbride  |
| <b>NAME OF CONTRIBUTOR:</b>   | Clare Ellis   |
| <b>NAME OF ORGANISATION:</b>  | Argyll Archaeology  |
| <b>TYPE(S) OF PROJECT:</b>  | Archaeological walkover survey  |
| <b>NMRS NO(S):</b>  | NM82NE 71<br>NM82NE 83<br>NM82NE 85<br>NM82NE 84<br>NM82NE 66<br>NM82NE 97<br>NM82NE 67<br>NM82NE 29<br>NM82NE 28<br>NM82NE 106   |
| <b>SITE/MONUMENT TYPE(S):</b>   | Cairn, building, shieling, platform, bank, wall, boundary, enclosure, track, farmstead, pond, well, mound   |
| <b>SIGNIFICANT FINDS:</b>   | None  |
| <b>NGR</b> (2 letters, 8 or 10 figures)   | 185547 727427   |
| <b>START DATE</b> (this season)   | 3 <sup>th</sup> June 2024   |
| <b>END DATE</b> (this season)   | 5 <sup>th</sup> June 2024   |
| <b>PREVIOUS WORK</b> (incl. <i>DES</i> ref.)  | Bonsall, C & Robinson, M 1992 <i>University of Edinburgh. Archaeological survey of the Glenshellach development area, Oban</i> : Report to Historic Scotland.   |
| <b>MAIN (NARRATIVE) DESCRIPTION:</b><br>(May include information from other fields) | A comprehensive pre-afforestation walkover survey was conducted over c. 175 hectares land located on the south side of Oban, Soroba, Ariogan, Argyll. A number of sites of archaeological or historical significance were recorded and these include; burial cairns; a farmstead; buildings; a series of 19 <sup>th</sup> century banks/enclosures and stone walls; and old tracks. |
| <b>PROPOSED FUTURE WORK:</b>  | Protect sites with an appropriate buffer zone of no physical disturbance.   |
| <b>CAPTION(S) FOR ILLUSTRS:</b>   |   |
| <b>SPONSOR OR FUNDING BODY:</b>   | Forest and Land Scotland  |
| <b>ADDRESS OF MAIN CONTRIBUTOR:</b>   | Davaar Cottage, Campbeltown, Argyll. PA28 6RE   |
| <b>EMAIL ADDRESS:</b>   | ellisclare@argyll-archaeology.co.uk   |
| <b>ARCHIVE LOCATION</b><br>(intended/deposited)                                     | NRHE (intended)   |

# Lepidoptera Survey 2024

| site    | gridref      | km_sq | record_date | species                   | adults | males | females | mating | eggs | larvae | pupae | nests | notes                  |
|---------|--------------|-------|-------------|---------------------------|--------|-------|---------|--------|------|--------|-------|-------|------------------------|
| Ariogan | NM8643527308 |       | 20/05/2024  | Chequered Skipper         | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8504927304 |       | 21/05/2024  | Cinnabar Moth             | 1      |       |         |        |      |        |       |       | Scottish Water not FLS |
| Ariogan | NM8600527342 |       | 20/05/2024  | Drinker Moth              |        |       |         |        |      | 1      |       |       |                        |
| Ariogan | NM8601027344 |       | 21/05/2024  | Drinker Moth              |        |       |         |        |      | 1      |       |       |                        |
| Ariogan | NM8584827402 |       | 21/05/2024  | Drinker Moth              |        |       |         |        |      | 1      |       |       |                        |
| Ariogan | NM8599526730 |       | 20/05/2024  | Marsh Fritillary          | 3      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8586926804 |       | 20/05/2024  | Marsh Fritillary          | 2      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8586726721 |       | 20/05/2024  | Marsh Fritillary          | 1      |       |         |        |      |        | 1     |       |                        |
| Ariogan | NM8586326707 |       | 20/05/2024  | Marsh Fritillary          | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8587026683 |       | 20/05/2024  | Marsh Fritillary          | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8589926679 |       | 20/05/2024  | Marsh Fritillary          | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8599426730 |       | 20/05/2024  | Marsh Fritillary          | 2      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8548827379 |       | 21/05/2024  | Marsh Fritillary          | 5      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8532227385 |       | 21/05/2024  | Marsh Fritillary          | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8528027478 |       | 21/05/2024  | Marsh Fritillary          | 8      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8596727640 |       | 21/05/2024  | Marsh Fritillary          | 6      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8643227303 |       | 21/05/2024  | Marsh Fritillary          | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8645027423 |       | 21/05/2024  | Marsh Fritillary          | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8643527308 |       | 20/05/2024  | Orange Tips               | 4      | 3     | 1       |        |      |        |       |       |                        |
| Ariogan | NM8601027344 |       | 21/05/2024  | Orange Tips               | 6      | 4     | 2       |        |      |        |       |       |                        |
| Ariogan | NM8589227379 |       | 21/05/2024  | Orange Tips               | 6      | 2     | 4       |        |      |        |       |       |                        |
| Ariogan | NM8548627382 |       | 21/05/2024  | Orange Tips               | 2      | 1     | 1       |        |      |        |       |       |                        |
| Ariogan | NM8541627384 |       | 21/05/2024  | Orange Tips               | 2      | 2     |         |        |      |        |       |       |                        |
| Ariogan | NM8532227385 |       | 21/05/2024  | Orange Tips               | 1      | 1     |         |        |      |        |       |       |                        |
| Ariogan | NM8518927320 |       | 21/05/2024  | Orange Tips               | 2      | 1     | 1       |        |      |        |       |       |                        |
| Ariogan | NM8528027478 |       | 21/05/2024  | Orange Tips               | 8      | 6     | 2       |        |      |        |       |       |                        |
| Ariogan | NM8596727640 |       | 21/05/2024  | Orange Tips               | 20     | 15    | 5       |        |      |        |       |       |                        |
| Ariogan | NM8613227383 |       | 21/05/2024  | Orange Tips               | 2      | 2     |         |        |      |        |       |       |                        |
| Ariogan | NM8643227303 |       | 21/05/2024  | Orange Tips               | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8518927320 |       | 21/05/2024  | Peacock                   | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8643227303 |       | 21/05/2024  | Peacock                   | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8643527308 |       | 20/05/2024  | Small Heath               | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8586826703 |       | 20/05/2024  | Small Heath               | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8604326761 |       | 20/05/2024  | Small Heath               | 6      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8602427020 |       | 20/05/2024  | Small Heath               | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8548627382 |       | 21/05/2024  | Small Heath               | 2      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8518927320 |       | 21/05/2024  | Small Heath               | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8537527587 |       | 21/05/2024  | Small Heath               | 20     |       |         |        |      |        |       |       |                        |
| Ariogan | NM8613227383 |       | 21/05/2024  | Small Heath               | 2      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8643227303 |       | 21/05/2024  | Small Heath               | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8504927304 |       | 21/05/2024  | Small Pearl-bordered Frit | 8      |       |         |        |      |        |       |       | Scottish Water not FLS |
| Ariogan | NM8520827432 |       | 21/05/2024  | Small Pearl-bordered Frit | 3      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8525127467 |       | 21/05/2024  | Small Pearl-bordered Frit | 1      |       |         |        |      |        |       |       |                        |
| Ariogan | NM8537527587 |       | 21/05/2024  | Small Pearl-bordered Frit | 4      |       |         |        |      |        |       |       |                        |