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Appropriate Assessment Screening & Natura Impact Statement

Ballygilgan, Carney, Co. Sligo

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1.0 Introduction

1.1 Purpose of the Report

An Appropriate Assessment (AA) Screening Assessment and Natura Impact Statement (NIS) were undertaken by Ash Ecology & Environmental Ltd (AEE) on behalf of Declan McCabe and his clients Eugene & Florence Hanna to accompany a new Planning Application for Sligo County Council (SCC).

The site is located in the in the townland of Ballygilgan, Carney, Carney, Co. Sligo, Grid Ref 54°20'35.4"N 8°32'43.1"W, See Figures 1 and 2.

The purpose of the assessment was to determine the potential impacts, if any, of the proposed works on nearby sites with European conservation designations (i.e. Natura 2000 sites).

1.2 Project Description

This project sets out for '*Planning Permission for the Demolition of an Existing Dwelling house and Planning Permission for New Replacement Dwelling House and all associated Site Works.*'

The site comprises of 0.43ha with proposed works to total 173.4m^2. The proposed site layout is shown as Figure 3.

The water supply to the proposed dwelling will be an existing public water mains connection.

A new WWTS as per the Site Suitability Assessment will be installed - a Packaged Treatment Plant with soil polishing filter and/or Reed Bed system.

1.3 Competency of Assessor

This report has been prepared by Aisling Walsh whose qualifications include MSc in Biodiversity and Conservation (TCD) and B.Sc. (Hons) Zoology (NUIG). Aisling is the Managing Director of Ash Ecology & Environmental Ltd (AEE) and has over 12 years of experience providing ecological consultancy and environmental assessment services. Aisling also has extensive experience undertaking forestry research in Trinity College Dublin (TCD) and teaching in the Life Sciences Department of University of Limerick (UL). Aisling has written numerous Ecological Impact Assessments (EcIA), Screening for Appropriate Assessment Stage I and Stage II Natura Impact Statements, Environmental Impact Assessments/Statements, Badger Surveys, Bat Surveys, Bird and Habitat Surveys. She has also provided input and reviewed Ecological and Environmental assessments for several EIS and EIAR and is also qualified at conducting environmental noise surveys for EPA licenced facilities. AEE is a registered practice of the CIEEM.

1.4 Consultation

The NPWS ranger Miriam Crowley for the area was contacted via email and phone (08/09/2019) and phone (18/09/2019) for her input into the mitigation measures for the Natura Impact Report. She recommended works to be carried out when Barnacle Geese are absent, and also that no permanently on night light is installed on the dwelling. A sensor light may be acceptable. Additional lighting may influence the geese and also a nearby Heronry that is located close by (approx. 250-300m in the woodland to the southeast/south). She also recommended a bat survey due to the demolition works and this is submitted as a separate report.

2.0 Methodology

This report has been prepared by AEE using the following guidance documents:

- European Commission (Nov 2018) Managing Natura 2000 sites, The provisions of Article 6 of the 'Habitats' Directive 92/43/EEC
- Appropriate Assessment of Plans and Projects in Ireland – Guidance for Planning Authorities. (Department of the Environment, Heritage and Local Government, 2010).
- Appropriate Assessment under Article 6 of the Habitats Directive: Guidance for Planning Authorities. Circular NPW 1/10 & PSSP 2/10.
- Assessment of Plans and Projects Significantly Affecting Natura 2000 sites: Methodological Guidance on the Provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC (European Commission Environment Directorate-General, 2001). The Guidance within this document provides a non-mandatory methodology for carrying out assessments required under Article 6(3) and (4) of the Habitats Directive.
- Managing Natura 2000 Sites: The Provisions of Article 6 of the Habitats Directive 92/43/EEC (EC Environment Directorate-General, 2000).
- Guidance Document on Article 6(4) of the Habitats Directive 92/43/EEC. Clarification of the Concepts of Alternative Solutions, Imperative Reasons of Over-riding Public Interest, Compensatory Measures, Overall Coherence. Opinion of the European Commission (European Commission, January 2007).

2.1 Desk Based Studies

A desk-based review of information sources was completed. Information contained on the websites of the National Parks and Wildlife Service (NPWS)[1] and the National Biodiversity Data Centre (NBDC)[2] was reviewed.

In addition the following publications and websites were also consulted:

- Ordnance Survey of Ireland mapping and aerial photography available from www.heritagemaps.ie;

[1] The National Parks and Wildlife Services map viewer http://webgis.npws.ie/npwsviewer/
[2] The National Biodiversity Data Centre www.NBDC.ie

- Online data available on European sites as held by the National Parks and Wildlife Service (NPWS) from www.npws.ie;
- Information on water quality and water body mapping in the area available from EPA ENVISION mapping; http://maps.epa.ie/internetmapviewer/mapviewer.aspx
- EPA www.epa.ie/QValue/webusers
- Information on the status of EU protected habitats and species in Ireland (National Parks & Wildlife Service, 2013a and 2013b)[3]
- Information on Special Conservation Interests for SPAs in Ireland from Irelands Article 12 submission to the EU Commission on the Status and trends of birds species 2008- 2012[4]
- The NPWS site synopsis, Natura 2000 Standard Data Form and Conservation Objectives Report for Ballintemple and Ballygilgan SPA (Site Code 004234)
- NRA (2009) *Guidelines for the Treatment of Otters prior to the Construction of* National Road Schemes, National Roads Authority
- Water Framework Ireland website http://www.wfdireland.ie/maps.html
- IFI (2016) Guidelines on Protection of Fisheries during Construction Works in and Adjacent to Waters, Inland Fisheries Ireland;
- River Basin Management District 2018-2021;
- Natura Impact Statement of the RBMP 2018-2021;
- The National Parks and Wildlife Service (NPWS) website www.npws.ie
- National Biodiversity Data Centre (NBDC) www.NBDC.ie
- Sligo County Development Plan, 2017-2023;
- County Development Plan 2017-2023
- Consolidated Draft + Adopted Amendments – August 2017, Volume 2, Chapter 12 – Carney Mini-Plan
- County Sligo Heritage Plan 2016-2020
- Irish Water Interim Revenue Control 2017 - 2018 Investment Plan 2017 - 2021

2.2 Field-based Studies

The site was visited for the purposes of this report by Aisling Walsh on the 7th of September 2019. The bat survey, submitted separately, was carried out on September 21st 2019. Habitats were identified and classified according to Fossitt (2000)[5] and Smith *et al.* (2011)[6]. During the survey, particular attention was given to the possible presence of habitats or species which are legally protected under Irish or European legislation (Wildlife Acts 1976 to 2018; EU Habitats Directive; EU Birds Directive), or listed

[3] NPWS (2013a). The Status of EU Protected Habitats and Species in Ireland. Species Assessments Volume 2, Version 1.1. Unpublished Report, National Parks & Wildlife Services. Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.
NPWS (2013b). The Status of EU Protected Habitats and Species in Ireland. Species Assessments Volume 3, *Version 1.0. Unpublished Report, National Parks & Wildlife Services. Department of Arts, Heritage and the* Gaeltacht, Dublin, Ireland.
[4] NPWS (2015) The Status and trends of Ireland's bird species (2008-2012). Available at http://www.npws.ie/status-and-trends-ireland%E2%80%99s-bird-species-%E2%80%93-article-12-reporting
[5] Fossitt, J. (2000). A *Guide to Habitats in Ireland*. The Heritage Council, Kilkenny.
[6] Smith, G.F., O'Donoghue, P., O'Hora, K. and Delaney, E. (2011) Best practice guidance for habitat survey and mapping. The Heritage Council, Kilkenny.

on the Flora Protection Order (2015) or Red Data books.[7, 8] Plant nomenclature follows Parnell and Curtis (2012).[9] A series of photographic plates are attached in Appendix A. Protected species previously recorded in grid square G64 where the site is located, taken from the NBDC website, is attached in Appendix B.

The main habitat on the site comprises of an existing house and small wooden shed with hard standing, classified as 'Buildings and Artificial Surfaces (BL3)', a lawn area – 'Amenity Grassland (GA2)', planted shrubs 'Flower beds and borders (BC4)' and an overgrown grassy area 'Meadows and Grassy Verges (GS2)'. The whole site is surrounded mainly by a block wall (BL3). The fields surrounding the site immediately outside the boundary are 'Improved Agricultural Grassland (GA1).'

All habitats were mapped and are shown on the accompanying habitat map, Figure 4.

2.3 Appropriate Assessment Methodology

2.3.1 Regulatory Context

The Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Flora and Fauna better known as "*The Habitats Directive*" provides the framework for legal protection for habitats and species of European importance. Articles 3 to 9 of the Directive provide the legislative means to protect habitats and species of Community interest through the establishment and conservation of an EU-wide network of sites known as Natura 2000. These are Special Areas of Conservation (SACs) designated under the Habitats Directive and Special Protection Areas (SPAs) designated under the Conservation of Wild Birds Directive (79/409/EEC) (better known as "The Birds Directive").

Article 6(3) and 6(4) of the Habitats Directive set out the decision-making tests for plans and projects likely to affect Natura 2000 sites (Annex 1.1). Article 6(3) establishes the requirement for Appropriate Assessment:

"Any plan or project not directly connected with or necessary to the management of the [Natura 2000] site but likely to have a significant effect thereon, either individually or in combination with other plans and projects, shall be subjected to appropriate assessment of its implications for the site in view of the site's conservation objectives. In light of the conclusions of the assessment of the implication for the site and subject to the provisions of paragraph 4, the component national authorities shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, if appropriate, after having obtained the opinion of the general public".

[7] Wyse Jackson, M., FitzPatrick, Ú., Cole, E., Jebb, M., McFerran, D., Sheehy Skeffington, M. & Wright, M. (2016) Ireland Red List No. 10: Vascular Plants. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland.
[8] Colhoun, K and Cummins, S (2013) Birds of Conservation Concern in Ireland 2014–2019, Irish Birds 9: 523-544.
[9] Parnell, J and Curtis, J. (2012). *Webb's, An Irish Flora*. Cork University Press.

Articles 6(3) and 6(4) of the Habitats Directive require an Appropriate Assessment of plans to prevent significant adverse effects on European conservation sites, also known as Natura 2000 sites. In this particular case the purpose of Appropriate Assessment is to assess the potential impacts of harvesting activities on the conservation objectives of European sites. The assessment will determine whether the plan would have significant adverse affects upon the integrity of each site in terms of its nature conservation objectives.

The integrity of the site has been defined as "*the coherence of the site's ecological structure and function, across its whole area, or the habitats, complex of habitats and/or populations of species for which the site is or will be classified*" (PPG 9, UK Department of the Environment, October 1994).Where negative effects are identified other options should be thoroughly examined to avoid any potential damaging effects prior to implementing the plan.

2.3.2 *AA Process*

There are four stages in the process to complete the AA which are outlined below.

The European Commission's Methodological Guidance recommends a 4 stage approach:

Stage 1: Screening

Determining whether the plan 'either alone or in combination with other plans or projects' is likely to have a significant effect on a European site.

Stage 2: Appropriate Assessment

Determining whether, in view of the site's conservation objectives, the plan 'either alone or in combination with other plans or projects' would have an adverse effect (or risk of this) on the integrity of the site. If not, the plan can proceed.

Stage 3: Assessment of Alternative Solutions

Where it has not been proven that measures considered will not avoid or mitigate the adverse affect on the Natura 2000 site, then an assessment of the alternatives will be required; and if none are acceptable then stage 4 is required to be considered.

Stage 4: Assessment where no Alternative Solutions Exist & where Adverse Impacts Remain

This will involve assessment where the Plan is considered to result in adverse impacts on the Natura 2000 site and no alternative solutions remain – the imperative reasons of overriding public interest (IROPI) test must be met before authorization, permission or adoption of the Plan is agreed. This includes the agreement of compensatory measures. This report covers Stage 1 of Appropriate Assessment - Screening. The outcome of each stage determines whether a further stage in the process is required.

This report comprises Stage 1; in addition to a Natura Impact Assessment which can be considered an intermediary step to assist SCC undertake Stage 2 of the Appropriate Assessment.

3.0 Stage I: Screening for Appropriate Assessment

In accordance with the Department of Environment Heritage and Local Government (DoEHLG) Guidelines screening is the process that addresses two tests of Article 6(3) of the Habitats Directive:

i) *..whether a plan or project is directly connected to or necessary for the management of the site, and*
ii) *..whether a plan or project, alone or in combination with other plans and projects, is likely to have significant effects on a Natura 2000 site in view of its conservation objectives.*

If the effects are deemed to be significant, potentially significant, or uncertain, or if the screening process becomes overly complicated, then the process must proceed to Stage 2. The screening assessment for the peat harvesting operations follows the following steps in accordance with the DoEHLG guidelines:

1. Description of plan or project, and local site or plan area characteristics.
2. Identification of relevant Natura 2000 sites, and compilation of information on their qualifying interests and conservation objectives.
3. Assessment of likely effects – direct, indirect and cumulative – undertaken on the basis of available information as a desk study or field survey or primary research as necessary.
4. Screening statement with conclusions.

3.1 Stages of the Appropriate Assessment

A flow diagram illustrating the various stages of AA are outlined below[10]:

[10] Figure taken from - European Commission (Nov 2018) Managing Natura 2000 sites, The provisions of Article 6 of the 'Habitats' Directive 92/43/EEC

3.2 Identification of Natura 2000 Sites

In accordance with the European Commission Methodological Guidance (EC2001), a list of Natura 2000 Sites that can be potentially affected by the proposed works has been compiled. Adopting the precautionary principle in identifying these sites, it has been decided to include all SAC (Special Areas of Conservation) and SPA (Special Protection Areas) sites within a 15km radius of the site at Ballygilgan, Carney, Co Sligo.

The nearest protected areas to the site are listed below in Table 1. There are a total of 6 SACs and 7 SPAs. A map showing the Natura sites located within a 15km radius of the site are shown on Figures 2, 5 and 6.

Table 1 Natura 2000 Sites within 15km of the Site.

Site Name	Code	Approx. Distance (as the crow flies)	Direction	Present within zone of influence
Special Areas of Conservation (SACs)				
Cummeen Strand/Drumcliff Bay (Sligo Bay) SAC	000627	0.13	W, NW, SW, S, SE	No
Ben Bulben, Gleniff And Glenade Complex SAC	000623	3.6	NE, E	No
Ballysadare Bay SAC	000622	9.4	SW, SE	No
Lough Gill SAC	001976	9.1	SE	No
Streedagh Point Dunes SAC	001680	5.5	N	No
Bunduff Lough And Machair/Trawalua/Mullaghmore SAC	000625	8.5	N, NE	No
Special Protection Area (SPAs)				
Ballintemple and Ballygilgan SPA	004264	Adjacent to the site boundary	N, NE, E, SE, S, SW	Yes
Drumcliff Bay SPA	004013	0.4 W	W, SW	No
Ardboline Island and Horse Island SPA	004135	8.0 W	W	No
Cummeen Strand SPA	004035	4.1 S	SW, SE	No
Ballysadare Bay SPA	004129	9.4 S	SW, SE	No
Sligo/Leitrim Uplands SPA	004187	3.6 E,	NE, SE	No
Inishmurray SPA	004068	11.7	NW	No

The proposed works will not occur within a designated site, see Figures 5 and 6, however the site of the proposed works is immediately adjacent to Ballintemple and Ballygilgan SPA. In this regard the potential impacts with regard to disturbance will be addressed in detail in Section 4.5. The Site Synopsis for Ballintemple and Ballygilgan SPA (Site Code 004234) is attached as Appendix C.

There are no expected impacts from the proposed works on the other sites listed in Table 1 as there are no direct hydrological connection or the distance is deemed far enough away that any disturbance emanating from the proposed works will be temporary and on a negligible scale so as not to have an impact. Accordingly these sites will not be discussed regarding potential impacts.

Table 2 below lists the features of interest for Ballintemple and Ballygilgan SPA and the likelihood of occurrence.

Table 2 Features of Interest for Ballintemple and Ballygilgan SPA and their occurrence on the site

Qualifying Interest	Code	Likelihood of Occurrence
Barnacle Goose (*Branta leucopsis*)	A045	Likely to occur on the improved agricultural fields adjacent to the site during the winter months.

3.3 Screening Assessment of Likely Effects

The potential for impact on the features of interest and conservation objectives of the Ballintemple and Ballygilgan SPA are considered below. A number of factors were examined at this stage and dismissed, or carried forward for appropriate assessment as relevant.

According to the EC guidance for the management of European Site (EC, 2018) and recent decisions of the CJEU, the integrity of a Natura 2000 sites involves its ecological functions and the need to preserve the site at a favourable conservation status.

The potential for significant impacts resulting from the proposed works were determined based on a range of indicators, including:

- *Habitat loss or alteration;*
- *Habitat/species fragmentation;*
- *Disturbance and/or displacement of species;*
- *Changes in population density;*
- *Changes in water quality;*
- *Introduction of Invasive Species.*

An assessment on each of the above indicators are given in detail for Ballintemple and Ballygilgan SPA.

3.3.1 Potential impacts for Ballintemple and Ballygilgan SPA

3.3.1.1 Habitat Loss/Alteration

None of the site is designated as part of the Ballintemple and Ballygilgan SPA and in this regard habitat loss and alteration as an impact to this Natura 2000 site is screened out. General mitigation regards site clearance is given in Section 4.5.

3.3.1.2 Disturbance and/or Displacement of Species

During construction and operation works of the proposed works there is potential for temporary noise disturbance to Ballintemple and Ballygilgan SPA, therefore disturbance and/or displacement to Barnacle Geese (the qualifying feature of this SPA) is screened in.

3.3.1.3 Habitat /Species Fragmentation

Habitat fragmentation has been defined as the 'reduction and isolation of patches of natural environment'[11] usually due to an external disturbance such that an alteration of the spatial composition of a habitat occurs that alters the habitat and 'create[s] isolated or tenuously connected patches of the original habitat.' This results in spatial separation of habitat units which had previously been in a state of greater continuity. As there will be no direct habitat loss of qualifying interest within any Natura 2000 sites, it is not considered that habitat fragmentation will arise from the proposed works and is therefore screened out.

3.3.1.4 Changes in Population Density

It is not expected that the proposed works will cause any reduction in the baseline population of Barnacle Geese as they roost on the nearby island of Inishmurray and is therefore screened out.

3.3.1.5 Changes in Water Quality

The site of the proposed works is within 684m of Cashelgarran Stream to the northwest and 654m of Maugherow Stream to the east. The Maugherow Stream is a tributary of the Cullagh Beg River. There is no direct hydrological connection between the site and these streams/rivers. Both the Cullagh Beg River and the Cashelgarran Stream flow into Drumcliff Bay, part of the Cummeen Strand/Drumcliff Bay (Sligo Bay) SAC and Drumcliff Bay SPA. There are no EPA monitoring stations along these rivers/streams.

The site occurs in Catchment 35 'Sligo Bay & Drowse' of the Water Frame Work Directive (WFD) and Subcatchment, 'Grange[Sligo]_SC_010'. The River Waterbody Risk Score assigned to the Cashelgarran Stream and Maugherow Stream are 'Review' while the Water Body Status 2010-2015 is 'unassigned'. The WFD Groundwater Status of 'Grange East' within which the proposed works would take place is currently (2010-2015) classified as 'Good Status', while the Risk Status is 'Not at Risk'.

As there is no potential risk to water quality during the construction phase of the proposed works due to no hydrological connection to watercourses, and because the WWTS installed will be as per EPA specifications, the contamination of surface and groundwater water quality is screened out.

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[11] Franklin, A. N. (2002). What is Habitat Fragmentation? *Studies in Avian Biology*, 20-29.

3.3.1.6 Introduction/Spread of Invasive Species

Annex I habitats could potentially be affected by invasive species. It is noted that the following highly invasive terrestrial plant species occur in the 10km² grid square G64 within which the site is located and includes:

- Cherry Laurel (Prunus laurocerasus)
- Giant Hogweed (Heracleum mantegazzianum)
- Giant-rhubarb (Gunnera tinctoria)
- Japanese Knotweed (Fallopia japonica)
- Rhododendron ponticum

These species were not observed during the site visit and therefore the spread of invasive species into the Ballintemple and Ballygilgan SPA is screened out. Nevertheless the client should get confirmation from any quarry supplying material that is it an invasive species free establishment.

3.4 Screening Statement Conclusions

According to NPWS (2009), the Appropriate Assessment Screening exercise can either identify that an Appropriate Assessment is not required; or that there is no potential for significant effects (i.e. Appropriate Assessment is not required); or that significant effects are certain, likely or uncertain (i.e. the project must either proceed to Stage 2 (AA) or be rejected).

The site of the proposed works is within a 15km radius of 13 Natura 2000 sites. It has been determined during the screening process that 12 of these sites will not be impacted while one other, the Ballintemple and Ballygilgan SPA, designated for Barnacle Geese, may potentially be impacted due to disturbance during demolition and construction as the site is on the boundary of the SPA.

A Natura Impact Statement (NIS) is therefore required in order to assess the significance of the potential impacts.The NIS is presented in Section 4 of this report.

4.0 Natura Impact Statement

Based on the results of the screening assessment (Section 3) a Natura Impact Statement (NIS) is required to assist Sligo County Council undertake an Appropriate Assessment. This NIS concludes the findings of a Natura Impact Assessment (NIA).

4.1 Stages of Natura Impact Assessment

The stages of the Natura Impact Assessment are broadly in line with those required for an Appropriate Assessment in accordance with the European Commission Methodological Guidance on the provision of Article 6(3) and 6(4) of the '*Habitats*' Directive 92/43/EEC (EC 2001) and the European Commission Guidance '*Managing Natura 2000 Sites*' (EC 2018).

In complying with the obligations under Article 6 and following the above Guidelines, this NIA has been structured in a stage by stage approach outlined in Table 3.

Table 3 Stages of Natura Impact Assessment (NIA)

Stages of the NIA	Description of Requirements in accordance with Article 6
Stages 1 & 2	Identification of the location and compilation of the information required regarding the Natura 2000 sites and the qualifying interests and conservation objectives for the sites.
Stage 3	Undertake an assessment of likely significant effects. As part of Stage 3 it is required to provide the following: • Description of the project. • Identification of the main features of the proposed project, (scale and size, physical changes that will result from the project).
Stage 4	Assessment of '*in combination effects*'. These include *ex situ* and *in situ* projects/developments.
Stage 5	Conclusion as to whether or not the project may give rise to significant effects.

The Habitats Directive promotes a hierarchy of avoidance, mitigation and compensatory measures. First the project should aim to avoid any negative impacts on European sites by identifying possible impacts early in the planning stage, and designing the project in order to avoid such impacts. Second, mitigation measures should be applied, if necessary, during the NIA process to the point, where no adverse impacts on the site(s) remain. If the project is still likely to result in adverse effects, and no further practicable mitigation is possible, then it is rejected. If no alternative solutions are identified and the project is required for imperative reasons of overriding public interest (IROPI test) under Article 6 (4) of the Habitats Directive, then compensation measures are required for any remaining adverse effect.

4.2 Stages 1 & 2 of Natural Impact Assessment

This stage of the NIA identifies and provides information regarding one Natura 2000 site, Ballintemple and Ballygilgan SPA, that is selected for the NIA and the features of interest and conservation objectives for this site.

4.2.1 Ballintemple and Ballygilgan SPA

Ballintemple and Ballygilgan SPA comprises two separate areas of fields supporting agriculturally-improved grassland, situated on the north side of Drumcliff Bay, Co. Sligo. The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for the following species: Barnacle Goose. The fields at Ballintemple and Ballygilgan support an internationally important population of Barnacle Goose (1,838 – 4 year survey mean for the period 1993- 2003). The population of Barnacle Goose at the site has increased in recent years (3,930 in 2008 and c. 5,000 in 2011) and is now the most important site in the country for this species. The geese feed for much of the winter on fields at Ballintemple and Ballygilgan, which are their core feeding sites, and roost on the nearby island of Inishmurray. Ballintemple and Ballygilgan SPA is of ornithological importance for the internationally important population of Barnacle Goose that it supports – this species is listed on Annex I of the E.U. Birds Directive. Parts of the Ballintemple and Ballygilgan SPA are designated as a Statutory Nature Reserve and parts are designated as a Wildfowl Sanctuary.

Threats to interest features found within Ballintemple and Ballygilgan SPA have been identified at a generic level in the 2013 NPWS Article 17 report 'The Status of EU Protected Habitats and Species in Ireland' (NPWS 2013)[12] and have been adapted from the Ballintemple and Ballygilgan SPA Conservation Objectives Supporting Documents (NPWS 2018)[13]. The Conservation Objective of Ballintemple and Ballygilgan SPA is '*to maintain or restore the favourable conservation condition of the bird species listed as Special Conservation Interests for this SPA*'.

Potential site threats as identified in the NPWS Standard Data Form with Ranking of Threat includes:[14]

- Airport - Low
- Urbanised areas, human habitation - Low

4.2.2 Barnacle Geese

The barnacle goose (*Branta leucopsis*) breeds predominantly in the High Arctic and winters along the coasts of Britain, Ireland and the mainland of continental Europe. Three separate populations of barnacle geese occur in the Western Palearctic. These

[12] NPWS (2013) The Status of EU Protected Habitats and Species in Ireland. Habitat Assessments Volume 2. Version 1.1. Unpublished Report, National Parks & Wildlife Services. Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland. https://www.npws.ie/sites/default/files/publications/pdf/Article_17_Print_Vol_2_report_habitats_v1_1_0.pdf

[13] NPWS (2018) Conservation objectives for Ballintemple and Ballygilgan SPA [004234]. Generic Version 6.0. Department of Culture, Heritage and the Gaeltacht. https://www.npws.ie/sites/default/files/protected-sites/conservation_objectives/CO004234.pdf

[14] NPWS (2017) NATURA 2000 - STANDARD DATA FORM https://www.npws.ie/sites/default/files/protected-sites/natura2000/NF004234.pdf

populations are not separated into sub-species and there are no morphological differences between them. However, they are geographically isolated and have been shown by ringing to have separate migration routes and breeding grounds with very limited exchange between the populations. One population breeds on Novaya Zemlya in Arctic Russia (with a few on the Baltic islands) and winters primarily in the Netherlands. The second breeds in Svalbard and winters largely on the Solway Firth in southern Scotland. The third population breeds in north east Greenland and winters on the northern and western coasts of Scotland and Ireland.

Barnacle geese breed along the coastal strip of north-east Greenland. Arriving in mid-May, geese breed in small colonies of a few to around 150 pairs, mainly on cliff ledges and outcrops above coastal plains or on the side of valleys. Some moulting areas have been identified within this breeding area, with numbers building up in these areas at the end of June. This suggests that a moult migration may occur within the breeding range. Birds leave the breeding grounds in late August and September for staging areas in Iceland.

Barnacle geese use two discrete staging areas in Iceland. During the autumn, staging occurs mainly in south-east Iceland, while in the spring barnacle geese largely concentrate in the valleys of northern Iceland.

The wintering range of barnacle geese is maritime. All but a handful of wintering sites are on offshore islands confined to the northern and western coasts of Scotland and Ireland. In the March 2013 international census, barnacle geese were recorded at 69 wintering sites in Scotland and Ireland. Many of these sites were very small, holding a few hundred geese, with few sites holding more than 1,000 geese. There have been only minor changes in the wintering distribution over recent decades; declines in goose numbers or abandonment of some island sites have resulted from reductions in sheep grazing affecting goose grazing quality. The birds tend to arrive in early October and have usually departed by early to mid-April.

The barnacle goose is primarily a grazer of short swards. During the breeding season, geese use wetland areas within the high arctic tundra, feeding on sedge and moss marshes and stands of Eriophorum spp. At other times of the year, barnacle geese have traditionally grazed short saltmarsh swards and areas where vegetation is restricted by exposure to wind and salt spray. As pastures have been improved, the species has increasingly moved to feed on intensively managed grassland, consequently moving further inland during both the winter and while staging. In spring, barnacle geese staging in Iceland feed largely on improved agricultural pastures and, to a lesser extent, wet river meadows. During the autumn passage, diet is more varied and includes berries and seeds in the uplands, and sedges on the lowlands as well as agricultural grasses. During the winter, some populations still feed on saltmarsh and salt-affected pasture, but most larger populations now use intensively managed grassland.

Numbers of Greenland barnacle geese across the range have increased steadily since counts began in the 1950s. Due to the remote location of many of the wintering sites for Greenland barnacle geese, estimating the total population size is only practical from a combination of air and ground surveys. Between 1959 and 2013, 13 full surveys have been conducted at approximately five-year intervals. The total

population has grown from 8,300 in 1959 to over 80,670 in 2013. This increase has been attributed to increased protection of roost sites through site designation, increased protection from shooting mortality and changes in agricultural practices resulting in the availability of higher quality winter grazing.[15]

4.3 Stage 3: Assessment of Likely Significant Effects

The likely significant effects on the designated sites from the proposed works on the Ballintemple and Ballygilgan SPA are identified as 'Disturbance' during the construction phase. Disturbance during the operational phase is not seen as a significant impact as the site already has a dwelling on it and so in this regard the Barnacle Geese would have been habituated to people living on that particular site - the house is there over 24 years.[16]

4.4 Stage 4: In Combination Effects of Plans & Projects

The Habitats Directive requires that due consideration needs to be given to any plan or project which is likely to have a significant effect on a Natura 2000 site alone or in-combination with other plans and projects. These projects would be subject to a Stage I Screening for Appropriate Assessment that would mitigate or screen out potential impacts.

In-combination effects may arise from the development of other projects in the vicinity of the site, such as construction of housing, roads, rail, water and wastewater infrastructure, gas, electricity, provision of tourism facilities and telecommunications infrastructure, however, the in-combination effects of other developments would depend on factors such as the distance in relation to the site, the scale and the characteristics e.g. the types and quantities of emissions.

In the past 5 years there have been a total of 22 applications for planning permission with 'Carney' in the address to Sligo County Council excluding the current application.

Finally the following plans were reviewed and considered for possible in-combination effects with the proposed project:

- Sligo County Development Plan, 2017-2023;
- Consolidated Draft + Adopted Amendments – August 2017, Volume 2, Chapter 12 – Carney Mini-Plan (although the site is just outside the boundary of this plan)
- County Sligo Heritage Plan 2016-2020
- Irish Water Interim Revenue Control 2017 - 2018 Investment Plan 2017 - 2021
- River Basin Management Plan (RBMP) 2018-2021
- Natura Impact Statement of the RBMP 2018-2021

[15] Mckenzie, R. (Oct 2014) Islay Sustainable Goose Management Strategy October 2014 – April 2024 Strategy Developed By (Islay Sustainable Goose Project Manager). Scottish Natural Heritage, Scottish Government Rural Payments & Inspections Division And The National Farmers Union Of Scotland (Islay Branch)

[16] Shown in the 1995 Aerial maps http://map.geohive.ie/mapviewer.html

4.5 Mitigation

4.5.1 Habitat Loss/Alteration

While there will be no loss of habitat of the Ballintemple and Ballygilgan SPA, the proposed works will involve the clearance of some scrub and small planted trees on the site which is of local ecological importance to nesting birds,

Existing trees and hedgerows will be retained along the boundaries. If any needs to be removed, e.g. sightlines, it should be taken away outside the bird nesting season which is March 1st to 31st of August each year.

All new landscaping of the site, including the planting of supplementary trees and hedging to offset that taken away, will use native species and varieties; Appendix D includes a list of suggested native tree and pollinator friendly species to plant.

4.5.2 Disturbance

Works will be undertaken outside the Barnacle Geese migratory period in Ireland, in general the birds tend to arrive in early October and have usually departed by early to mid-April. Works should therefore take place mid-April to end of September. Should construction still be in place as series of Harris Fencing should be erected all around the site with some type of insulating material attached (facing the construction side) to attenuate and absorb the noise.

Environmental noise arising from activities on the construction site shall be controlled in accordance with the requirements of BS5228. The following noise control measures shalt be implemented by all contractors:

- All contractors will ensure that the plant and construction methods employed are the quietest available for the required purpose insofar as practicable.
- Equipment and vehicles to be shut down when not in use.

No 'permanently on' night time lighting should be installed. A sensor light of modest lighting may be an option. This is to ensure barnacle geese, or local bat species, will not be disturbed.

4.6 Stage 5: Conclusion of Natura Impact Assessment

Due to the potential for impacts upon the Ballintemple and Ballygilgan SPA, due to its close proximity to the works, an Appropriate Assessment of the impacts of the proposed works on its own or in combination with other plans or projects, was required. As a result of the proposed mitigation measures, this Natura Impact Statement is able to conclude that the proposed demolition of the existing dwelling and building of a new dwelling will not result in impacts on the integrity of the Ballintemple and Ballygilgan SPA or any other Natura 2000 sites.

FIGURES

Map sourced from National Biodiversity Data Centre Website – www.nbdc.ie

© Ordnance Survey Ireland

Client	Drawing
Eugene & Florence Hanna	Site Location Map
Job: NIS Report	

Drawing Number	Status	Sht. Size	Scale	Date	Drawn
Figure 1	Final	A4	As Shown	Sept 19	AW

River Network

Approx. Site Boundary

1. Ballintemple & Ballygilgan SPA
2. Ballintemple & Ballygilgan SP and Cummeen Strand/Drumcliff Bay (Sligo Bay) SAC (overlap)
3. Cummeen Strand/Drumcliff Bay (Sligo Bay) SAC and Drumcliff Bay SPA (overlap)
4. Cummeen Strand/Drumcliff Bay (Sligo Bay) SAC

Client Eugene & Florence Hanna			Drawing Aerial Photo with Drainage Network & Natura 2000 Site Information			
Job NIS Report						
	Drawing Number Figure 2	Status Final	Sht. Size A4	Scale As Shown	Date Sept 19	Drawn AW

OS REF: 0848-C

SITE LAYOUT PLAN

AREA OF SITE - 0.43 ACRES OR 0.17 HECTARES
SCALE 1:250

PLANNNG ISSUE	CLIENT: EUGENE & FLORENCE HANNA	JOB #: 2019-024	REV: --
mccabe architects t: 074 97 43012 (donegal) t: 071 91 00554 (sligo) w: www.mccabearchitects.ie e: info@mccabearchitects.ie old lagney road	PROJECT: PROPOSED NEW REPLACEMENT DWELLINGHOUSE AT CARNEY, CO. SLIGO		
donegal town	TITLE: PROPOSED SITE LAYOUT PLAN		2019-024-P02

THIS DRAWING IS COPYRIGHT. USE DIMENSIONS - DO NOT SCALE. CONTRACTORS MUST VERIFY DIMENSIONS ON SITE PRIOR TO STARTING WORK

Client	Drawing
Eugene & Florence Hanna	Proposed Site Layout
Job: NIS Report	

Drawing Number	Status	Sht. Size	Scale	Date	Drawn
Figure 3	Final	A4	As Shown	Sept 19	AW

N

- Approx. Site Boundary
- Hedgerow (WL1)
- Block wall (BL3)
- Buildings (BL3)
- Artificial Surfaces (BL3)
- Grassy Meadows and Verges (GS2)
- Planted borders and Flower Beds (BC4)
- Amenity Grassland (GA2)
- Improved Agricultural Grassland (and Ballintemple and Ballygilgan SPA)

Client	Drawing
Eugene & Florence Hanna	
Job: NIS Report	Habitat Map

Drawing Number	Status	Sht. Size	Scale	Date	Drawn
Figure 4	Final	A4	As Shown	Sept 19	AW

No.	Site Code	Name	Distance (km)
1	000627	Cummeen Strand/Drumcliff Bay (Sligo Bay) SAC	0.13 W, NW, SW, S, SE
2	000623	Ben Bulben, Gleniff And Glenade Complex SAC	3.6 NE, E
3	000622	Ballysadare Bay SAC	9.4 S, SW, SE
4	001976	Lough Gill SAC	9.1 SE
5	001680	Streedagh Point Dunes SAC	5.5 N
6	000625	Bunduff Lough And Machair/Trawalua/Mullaghmore SAC	8.5 N, NE

Special Area of Conservation

Site Location

N

Client	Drawing
Eugene & Florence Hanna	
Job: NIS Report	Special Areas of Conservation (SACs) within 15km of Site

Drawing Number	Status	Sht. Size	Scale	Date	Drawn
Figure 5	Final	A4	As Shown	Sept 19	AW

No.	Site Code	Name	Distance (km)
1	004264	Ballintemple and Ballygilgan SPA	Adjacent to the site boundary
2	004013	Drumcliff Bay SPA	0.4 W, SW
3	004135	Ardboline Island and Horse Island SPA	8.0 W
4	004035	Cummeen Strand SPA	4.1 S, SW, SE
5	004129	Ballysadare Bay SPA	9.4 S, SW, SE
6	004187	Sligo/Leitrim Uplands SPA	3.6 E, NE, SE
7	004068	Inishmurray SPA	11.7 NW

Special Protection Area

Site Location

N

Client	Drawing
Eugene & Florence Hanna	
Job: NIS Report	Special Protection Areas (SPAs) within 15km of Site

Drawing Number	Status	Sht. Size	Scale	Date	Drawn
Figure 6	Final	A4	As Shown	Sept 19	AW

APPENDICES

APPENDIX A

Plate 1 A view of the existing house (to be demolished) and hard standing - Habitat Type Buildings and Artificial Surfaces (BL3) with Amenity Grassland (GA2) in the foreground.

Plate 2 A view of the planted non-native hedgerow (WL1) and block wall (BL3) with Amenity Grassland (GA2) and hard standing (BL3).

Plate 3 A view of overgrown area of garden best described as 'Grassy Meadows and Verges (GS2)'.

Plate 4 A view of planted trees and shrubs in garden – 'Borders and Flower Beds (BC4)' with 'Amenity Grassland (GA2)' in foreground.

Plate 5 A view of Ballintemple and Ballygilgan SPA adjacent to the site made up of Improved Agricultural Grassland (GA1).

APPENDIX B

Species group	Species name	Date of last record	Designation
amphibian	Common Frog (Rana temporaria)	31/03/2014	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex V | | Protected Species: Wildlife Acts
amphibian	Smooth Newt (Lissotriton vulgaris)	30/04/2011	Protected Species: Wildlife Acts
bird	Barn Swallow (Hirundo rustica)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Barnacle Goose (Branta leucopsis)	27/11/2013	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Bar-tailed Godwit (Limosa lapponica)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Black Guillemot (Cepphus grylle)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Black-headed Gull (Larus ridibundus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	Black-legged Kittiwake (Rissa tridactyla)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: OSPAR Convention | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Black-tailed Godwit (Limosa limosa)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Brent Goose (Branta bernicla)	27/11/2013	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Canada Goose (Branta canadensis)	31/12/2011	Invasive Species: Invasive Species | | Invasive Species: Invasive Species >> High Impact Invasive Species | | Invasive Species: Invasive Species >> Regulation S.I. 477 (Ireland) | | Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species
bird	Common Coot (Fulica atra)	29/02/1984	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section II Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Eider (Somateria mollissima)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section II Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Goldeneye (Bucephala clangula)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Grasshopper Warbler (Locustella naevia)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Greenshank (Tringa nebularia)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Kestrel (Falco tinnunculus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List

Species group	Species name	Date of last record	Designation
bird	Common Kingfisher (Alcedo atthis)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Linnet (Carduelis cannabina)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Pheasant (Phasianus colchicus)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section I Bird Species
bird	Common Redshank (Tringa totanus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	Common Scoter (Melanitta nigra)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section III Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	Common Shelduck (Tadorna tadorna)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Snipe (Gallinago gallinago)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section III Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Starling (Sturnus vulgaris)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Swift (Apus apus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Tern (Sterna hirundo)	31/07/1972	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Common Wood Pigeon (Columba palumbus)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section I Bird Species
bird	Corn Crake (Crex crex)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	Dunlin (Calidris alpina)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Eurasian Curlew (Numenius arquata)	27/11/2013	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	Eurasian Oystercatcher (Haematopus ostralegus)	27/11/2013	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Eurasian Teal (Anas crecca)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section II

Species group	Species name	Date of last record	Designation
			Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Eurasian Tree Sparrow (Passer montanus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Eurasian Wigeon (Anas penelope)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section II Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Eurasian Woodcock (Scolopax rusticola)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section III Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	European Golden Plover (Pluvialis apricaria)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section III Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	European Shag (Phalacrocorax aristotelis)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	European Storm-petrel (Hydrobates pelagicus)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Gadwall (Anas strepera)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Goosander (Mergus merganser)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Great Black-backed Gull (Larus marinus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Great Cormorant (Phalacrocorax carbo)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Great Crested Grebe (Podiceps cristatus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Great Northern Diver (Gavia immer)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species
bird	Greater Scaup (Aythya marila)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section III Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Greater White-fronted Goose (Anser albifrons)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section III Bird Species | | Threatened

Species group	Species name	Date of last record	Designation
			Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Grey Plover (Pluvialis squatarola)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Greylag Goose (Anser anser)	31/12/2011	Invasive Species: Invasive Species | | Invasive Species: Invasive Species >> Regulation S.I. 477 (Ireland) | | Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section II Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Hen Harrier (Circus cyaneus)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Herring Gull (Larus argentatus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	House Martin (Delichon urbicum)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	House Sparrow (Passer domesticus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Lesser Black-backed Gull (Larus fuscus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Little Egret (Egretta garzetta)	27/11/2013	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species
bird	Little Grebe (Tachybaptus ruficollis)	31/07/1972	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Little Gull (Larus minutus)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species
bird	Long-tailed Duck (Clangula hyemalis)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species
bird	Mallard (Anas platyrhynchos)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section I Bird Species
bird	Merlin (Falco columbarius)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Mew Gull (Larus canus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Mute Swan (Cygnus olor)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Northern Lapwing (Vanellus vanellus)	27/11/2013	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	Northern Pintail (Anas acuta)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section II

Species group	Species name	Date of last record	Designation
			Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	Northern Shoveler (Anas clypeata)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section III Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	Northern Wheatear (Oenanthe oenanthe)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Peregrine Falcon (Falco peregrinus)	14/07/2012	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species
bird	Pink-footed Goose (Anser brachyrhynchus)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species
bird	Red Knot (Calidris canutus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bird	Red-billed Chough (Pyrrhocorax pyrrhocorax)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Red-breasted Merganser (Mergus serrator)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species
bird	Red-throated Diver (Gavia stellata)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Ringed Plover (Charadrius hiaticula)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Sand Martin (Riparia riparia)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Short-eared Owl (Asio flammeus)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Sky Lark (Alauda arvensis)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Slavonian Grebe (Podiceps auritus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Spotted Flycatcher (Muscicapa striata)	31/07/1972	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Stock Pigeon (Columba oenas)	29/02/1984	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Tufted Duck (Aythya fuligula)	31/07/1972	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section I Bird Species | | Protected Species: EU Birds Directive >> Annex III, Section II Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Twite (Carduelis flavirostris)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List

Species group	Species name	Date of last record	Designation
bird	Velvet Scoter (Melanitta fusca)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex II, Section II Bird Species
bird	Water Rail (Rallus aquaticus)	31/12/2011	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	White-tailed Eagle (Haliaeetus albicilla)	31/12/2011	Protected Species: Wildlife Acts
bird	Whooper Swan (Cygnus cygnus)	31/12/2011	Protected Species: Wildlife Acts | | Protected Species: EU Birds Directive | | Protected Species: EU Birds Directive >> Annex I Bird Species | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Amber List
bird	Yellowhammer (Emberiza citrinella)	31/07/1991	Protected Species: Wildlife Acts | | Threatened Species: Birds of Conservation Concern | | Threatened Species: Birds of Conservation Concern >> Birds of Conservation Concern - Red List
bony fish (Actinopterygii)	European Eel (Anguilla anguilla)	25/09/2006	Threatened Species: OSPAR Convention | | Threatened Species: Critically Endangered
crustacean	Freshwater White-clawed Crayfish (Austropotamobius pallipes)	13/08/2003	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex II | | Protected Species: EU Habitats Directive >> Annex V | | Protected Species: Wildlife Acts
fern	Holly-fern (Polystichum lonchitis)	31/12/1999	Threatened Species: Vulnerable
flowering plant	Alpine Meadow-grass (Poa alpina)	31/12/1903	Threatened Species: Vulnerable
flowering plant	Moss Campion (Silene acaulis)	31/12/1999	Threatened Species: Vulnerable
flowering plant	Yellow Saxifrage (Saxifraga aizoides)	31/12/1999	Threatened Species: Vulnerable
insect - beetle (Coleoptera)	Chaetarthria seminulum	14/03/1993	Threatened Species: Data deficient
insect - beetle (Coleoptera)	Heterocerus flexuosus	27/09/1991	Threatened Species: Data deficient
insect - beetle (Coleoptera)	Laccophilus hyalinus	31/07/1901	Threatened Species: Vulnerable
insect - beetle (Coleoptera)	Limnebius nitidus	14/03/1993	Threatened Species: Endangered
insect - butterfly	Dark Green Fritillary (Argynnis aglaja)	06/07/2014	Threatened Species: Vulnerable
insect - butterfly	Grayling (Hipparchia semele)	31/12/1975	Threatened Species: Near threatened
insect - butterfly	Marsh Fritillary (Euphydryas aurinia)	31/12/2012	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex II | | Threatened Species: Vulnerable
insect - butterfly	Small Blue (Cupido minimus)	17/07/2013	Threatened Species: Endangered
insect - butterfly	Small Heath (Coenonympha pamphilus)	07/08/2011	Threatened Species: Near threatened
insect - butterfly	Wall (Lasiommata megera)	24/05/2016	Threatened Species: Endangered
insect - butterfly	Wood White (Leptidea sinapis)	29/05/2010	Threatened Species: Near threatened

Species group	Species name	Date of last record	Designation
insect - hymenopteran	Bombus (Bombus) magnus	17/03/2012	Threatened Species: Data deficient
insect - hymenopteran	Gipsy Cuckoo Bee (Bombus (Psithyrus) bohemicus)	15/04/2015	Threatened Species: Near threatened
insect - hymenopteran	Large Red Tailed Bumble Bee (Bombus (Melanobombus) lapidarius)	14/08/2013	Threatened Species: Near threatened
insect - hymenopteran	Moss Carder-bee (Bombus (Thoracombus) muscorum)	23/06/2015	Threatened Species: Near threatened
liverwort	Bantry Notchwort (Leiocolea bantriensis)	15/09/1970	Threatened Species: Near threatened
liverwort	Bog Pawwort (Barbilophozia kunzeana)	31/12/1880	Threatened Species: Regionally Extinct
liverwort	Two-lipped Flapwort (Jungermannia subelliptica)	31/12/1970	Threatened Species: Near threatened
marine mammal	Bottle-nosed Dolphin (Tursiops truncatus)	16/06/2011	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex II | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
marine mammal	Common Dolphin (Delphinus delphis)	17/01/2015	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
marine mammal	Common Porpoise (Phocoena phocoena)	21/02/1993	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex II | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts | | Threatened Species: OSPAR Convention
marine mammal	Common Seal (Phoca vitulina)	22/11/2015	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex II | | Protected Species: EU Habitats Directive >> Annex V | | Protected Species: Wildlife Acts
marine mammal	Fin Whale (Balaenoptera physalus)	07/12/2011	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
marine mammal	Grey Seal (Halichoerus grypus)	10/03/2015	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex II | | Protected Species: EU Habitats Directive >> Annex V | | Protected Species: Wildlife Acts
marine mammal	Long-finned Pilot Whale (Globicephala melas)	14/04/2008	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
marine mammal	Sperm Whale (Physeter macrocephalus)	15/07/1936	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
marine mammal	Striped Dolphin (Stenella coeruleoalba)	15/02/1999	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
mollusc	Common Whorl Snail (Vertigo (Vertigo) pygmaea)	31/12/1904	Threatened Species: Near threatened
mollusc	Copse Snail (Arianta arbustorum)	05/08/1991	Threatened Species: Vulnerable
mollusc	Dog Whelk (Nucella lapillus)	27/05/1994	Threatened Species: OSPAR Convention
mollusc	English Chrysalis Snail (Leiostyla (Leiostyla) anglica)	31/12/1904	Threatened Species: Vulnerable
mollusc	Heath Snail (Helicella itala)	12/10/1990	Threatened Species: Vulnerable
mollusc	Marsh Whorl Snail (Vertigo	31/12/1904	Threatened Species: Vulnerable

Species group	Species name	Date of last record	Designation
	(Vertigo) antivertigo)		
mollusc	Moss Chrysalis Snail (Pupilla (Pupilla) muscorum)	12/10/1990	Threatened Species: Endangered
mollusc	Point Snail (Acicula fusca)	31/12/1914	Threatened Species: Vulnerable
mollusc	Prickly Snail (Acanthinula aculeata)	31/12/1904	Threatened Species: Near threatened
mollusc	Smooth Grass Snail (Vallonia pulchella)	31/12/1904	Threatened Species: Vulnerable
mollusc	Tree Snail (Balea (Balea) perversa)	31/12/1904	Threatened Species: Vulnerable
moss	Alpine Extinguisher-moss (Encalypta alpina)	05/07/2003	Threatened Species: Vulnerable
moss	Bent-moss (Campylostelium saxicola)	05/07/2003	Protected Species: Flora Protection Order | | Protected Species: Flora Protection Order >> Flora Protection Order 2015 Schedule B (Mosses) | | Threatened Species: Endangered
moss	Bristle-leaf (Brachydontium trichodes)	31/12/1937	Protected Species: Flora Protection Order | | Protected Species: Flora Protection Order >> Flora Protection Order 2015 Schedule B (Mosses) | | Threatened Species: Endangered
moss	Brown Screw-moss (Syntrichia princeps)	31/12/1879	Threatened Species: Regionally Extinct
moss	Clint Crisp-moss (Tortella densa)	25/06/2003	Threatened Species: Near threatened
moss	Hook-beak Tufa-moss (Hymenostylium recurvirostrum)	25/06/2003	Threatened Species: Near threatened
moss	Irish Beard-moss (Didymodon maximus)	05/07/2003	Protected Species: Flora Protection Order | | Protected Species: Flora Protection Order >> Flora Protection Order 2015 Schedule B (Mosses) | | Threatened Species: Near threatened
moss	Irish Rock-bristle (Seligeria oelandica)	31/12/1970	Threatened Species: Vulnerable
moss	Lesser Striated Feather-moss (Eurhynchium striatulum)	21/07/2009	Threatened Species: Near threatened
moss	Many-leaved Pocket-moss (Fissidens polyphyllus)	31/12/1856	Threatened Species: Vulnerable
moss	Norway Timmia (Timmia norvegica)	05/07/2003	Threatened Species: Vulnerable
moss	Prickly Tamarisk-moss (Abietinella abietina var. hystricosa)	26/06/2003	Threatened Species: Near threatened
moss	Red Leskea (Orthothecium rufescens)	28/06/2003	Threatened Species: Near threatened
moss	Short-beaked Thyme-moss (Mnium thomsonii)	05/07/2003	Threatened Species: Near threatened
moss	Slender Beard-moss (Didymodon icmadophilus)	31/12/1880	Threatened Species: Regionally Extinct
moss	Velvet Feather-moss	26/06/2003	Threatened Species: Endangered

Species group	Species name	Date of last record	Designation
	(Brachytheciastrum velutinum)		
moss	Zierian Hump-moss (Plagiobryum zieri)	25/06/2003	Threatened Species: Near threatened
terrestrial mammal	Brown Long-eared Bat (Plecotus auritus)	06/11/2008	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
terrestrial mammal	Daubenton's Bat (Myotis daubentonii)	25/08/2010	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
terrestrial mammal	Eurasian Badger (Meles meles)	31/12/2016	Protected Species: Wildlife Acts
terrestrial mammal	Eurasian Pygmy Shrew (Sorex minutus)	09/09/2015	Protected Species: Wildlife Acts
terrestrial mammal	Eurasian Red Squirrel (Sciurus vulgaris)	01/09/2017	Protected Species: Wildlife Acts
terrestrial mammal	European Otter (Lutra lutra)	31/01/2013	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex II | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
terrestrial mammal	Fallow Deer (Dama dama)	15/04/2015	Invasive Species: Invasive Species | | Invasive Species: Invasive Species >> High Impact Invasive Species | | Invasive Species: Invasive Species >> Regulation S.I. 477 (Ireland) | | Protected Species: Wildlife Acts
terrestrial mammal	Lesser Noctule (Nyctalus leisleri)	11/08/2014	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
terrestrial mammal	Natterer's Bat (Myotis nattereri)	23/05/2015	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
terrestrial mammal	Pine Marten (Martes martes)	07/06/2015	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex V | | Protected Species: Wildlife Acts
terrestrial mammal	Pipistrelle (Pipistrellus pipistrellus sensu lato)	13/08/2011	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
terrestrial mammal	Red Deer (Cervus elaphus)	24/05/2013	Protected Species: Wildlife Acts
terrestrial mammal	Soprano Pipistrelle (Pipistrellus pygmaeus)	11/08/2014	Protected Species: EU Habitats Directive | | Protected Species: EU Habitats Directive >> Annex IV | | Protected Species: Wildlife Acts
terrestrial mammal	West European Hedgehog (Erinaceus europaeus)	23/08/2015	Protected Species: Wildlife Acts

APPENDIX C

SITE SYNOPSIS

SITE NAME: BALLINTEMPLE AND BALLYGILGAN SPA

SITE CODE: 004234

Ballintemple and Ballygilgan SPA comprises two separate areas of fields supporting agriculturally-improved grassland, situated on the north side of Drumcliff Bay, Co. Sligo.

The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for the following species: Barnacle Goose.

The fields at Ballintemple and Ballygilgan support an internationally important population of Barnacle Goose (1,838 – 4 year survey mean for the period 1993-2003). The population of Barnacle Goose at the site has increased in recent years (3,930 in 2008 and *c*. 5,000 in 2011) and is now the most important site in the country for this species. The geese feed for much of the winter on fields at Ballintemple and Ballygilgan, which are their core feeding sites, and roost on the nearby island of Inishmurray.

Ballintemple and Ballygilgan SPA is of ornithological importance for the internationally important population of Barnacle Goose that it supports – this species is listed on Annex I of the E.U. Birds Directive. Parts of the Ballintemple and Ballygilgan SPA are designated as a Statutory Nature Reserve and parts are designated as a Wildfowl Sanctuary.

25.3.2014

APPENDIX D

Choosing the right species of native tree and shrub

As mentioned, choosing the right species of tree and shrub is very important in urban areas where there are restrictions on space. Where possible, always use native species. Below is a list of the trees and shrubs native to Ireland, and advice on the locations to which they are suited.

Common name	Latin name	Height (max)	Suitable for public open spaces	Suitable for streets and confined spaces	Suitable for tubs, containers, raised beds etc.	Guide to planting: see key below
Alder	*Alnus glutinosa*	22m	Yes	No	Yes	ADPS
Alder buckthorn	*Frangula alnus*	6m	Yes	No	Yes	D
Arbutus (strawberry tree)	*Arbutus unedo*		Yes	No	Yes	
Ash	*Fraxinus excelsior*	28m	Yes	Yes	No	ADIPS
Aspen	*Populus tremula*	24m	Yes	No	No	DPSV
Bird cherry	*Prunus padus*	14m	Yes	Yes	Yes	P
Bramble	*Rubus fructicosus*					C/H
Broom	*Cytisus scoparius*	2m				
Burnet rose	*Rosa pimpinellifolia*					C/H
Common (or European) gorse	*Ulex europeaus*	2.5m				HV
Crab apple	*Malus sylvestris*	6m	Yes	No	No	AHIP
Dog rose	*Rosa canina*					C/H
Downy birch	*Betual pubescens*	18m	Yes	Yes	Yes	ADIP
Elder	*Sambucus nigra*	6m				V
Guelder rose	*Viburnum opulus*	4.5m				DH

Hawthorn	*Crataegus monogyna*	9m				AHIPS
Hazel	*Corylus avellana*	6m				AHS
Holly	*Ilex aquifolium*	15m	Yes	No	Yes	AHPS
Honeysuckle	*Lonicera periclymenum*					C
Ivy	*Hedera helix*					C
Juniper	*Juniperus communis*	6m	Yes	No	No	
Pedunculate oak	*Quercus robur*	30m	Yes	No	No	AI
Privet	*Ligustrum vulgare*	3m				No
Purging buckthorn	*Rhamnus cathartica*	4.5m				AHPV
Rowan or mountain ash	*Sorbus aucuparia*	9m	Yes	Yes	Yes	ADHIP
Scots pine	*Pinus sylvestris*	24m	Yes	No	No	AI
Sessile oak	*Quercus petraea*	30m	Yes	No	No	AI
Silver birch	*Betula pendula*	18m	Yes	Yes	Yes	ADIP
Sloe, blackthorn	*Prunus spinosa*	3m				AHPV
Spindle	*Euonymous europaeus*	7.5m				H
Western (or mountain) gorse	*Ulex gallii*					
Whitebeam spp.	*Sorbus aria/ S. anglica/S. devoniensis /S.hibernica/S. latifolia/S. rupicola*	12m	Yes	Yes	Yes	IPS
Wild cherry	*Prunus avium*	15m	Yes	Yes	Yes	AHI

Willow spp.	*Salix spp.*	6m				V
Wych elm	*Ulmus glabr*	30m	Yes		No	PS
Yew	*Taxus baccata*	14m	Yes	No	Yes	AIPS

A – Grows in a wide variety of soils
C – Climber
H – Suitable for hedging
I – Suitable as an individual tree
D – Tolerates or prefers damp conditions
P – Tolerates smoke or pollution
S – Tolerates shade
V – Invasive

Pollinator friendly garden plants

Aim to have 3-5 different types of these plants flowering in your garden each season. These suggestions are **not** exhaustive; many other flowers are also good for pollinators. For more planting suggestions visit **www.rhs.org.uk/perfectforpollinators.**

		SPRING	SUMMER	AUTUMN
		March-May	June-Aug	Sept-Oct
	Wildflowers in long grass These are examples of plants that will grow naturally in long grass; you do not need to buy seed or plants!	Dandelion Dead-nettle Vetch	Bird's foot trefoil Brassicas Clovers Geranium Knapweed Oxeye daisy Self-heal Speedwell Thistle Vetch Yarrow	Autumn Hawkbit Clovers Hawksbeard Vetch
	Ornamental plants and herbs	Comfrey Hellebores Lungwort Spring/winter Heather	Borage Calamint Catmint Columbine Delphinium Globe thistle Lavender Oregano Penstemon Poppy Scabious Stachys Sneezeweed Thyme Viper's bugloss	Aster Button Snakewort Coneflower Eupatorium Heathers Single Sunflowers(Annual) Stonecrop
	Flowering trees/ shrubs	Barberry (Berberis) Broom Crab apple Forsythia Hawthorn Mahonia Rowan Viburnum Wild cherry Willow	Bramble Cotoneaster Deutzia Firethorn Laburnum Rock Rose Viburnum	Hebe Ivy Russian Sage (sub-shrub)
	Fruit and Veg Many of the fruits and vegetables you grow in your garden need pollinators to produce seeds and fruit!	Apples Blueberries Cherry plum Currants	Blackberries Courgettes Field/runner beans Pumpkins Raspberries Strawberries Tomatoes	

Info Box:

Letting a small portion of Brassica plants (e.g. Cabbage, Kale, Brussel sprouts) flower can help provide food for pollinators in your garden