Barndarrig Residential Development Ecological Impact Assessment









Prepared By:

Moore Group -Environmental Services

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1. INTRODUCTION

Moore Group was commissioned by Wicklow County Council to undertake a Habitat Survey and EcIA of the site of a proposed residential development at Barndarrig, Co. Wicklow, referred to as the 'Proposed Development'. The proposed development will consist of the provision of 17 residential houses and 3 group housing units.

This report provides information on ecological features if present within the potential Zone of Influence of the Proposed Development, of particular significance, primarily designated habitats and species, including habitats/species listed in Annex I, II and IV of the EU Habitats Directive, rare flora listed in the Flora Protection Order along with other semi-natural habitats of conservational value.

This report was compiled by Ger O'Donohoe M.Sc. of Moore Group providing information on habitats in the study area. Ger is the principal ecologist with Moore Group and has over 30 years' experience in ecological impact assessment. He graduated from ATU Galway in 1993 with a B.Sc. in Applied Freshwater & Marine Biology and subsequently worked in environmental consultancy while completing an M.Sc. in Environmental Sciences, graduating from Trinity College, Dublin in 1999. (He also has over 15 years' experience of carrying out bat surveys and has completed the Bat Conservation Ireland, Bat Detector Workshop which is the standard training for the carrying out of bat surveys in Ireland and follows the Bat Conservation Ireland 'Bat Survey Guidelines' - Aughney *et al.*, 2008'. In addition, Ger is an active member of the Galway Bat Group and Bat Conservation Ireland, which monitors bat populations in Ireland, and facilitates the education of bat communities to the public.

The following important ecological receptors were considered in planning and designing the project, and in assessing its likely ecological effects:

- Sites with nature conservation designations, including proposed NHAs, the reasons for their designation, and their conservation objectives, where available;
- Annex IV (Habitats Directive) species of fauna and flora, and their breeding sites and resting places, which are strictly protected under the European Communities (Birds and Natural Habitats) Regulations, 2011;
- Other species of fauna and flora which are protected under the Wildlife Acts, 1976-2024;
- 'Protected species and natural habitats', as defined in the Environmental Liability Directive (2004/35/EC) and European Communities (Environmental Liability) Regulations, 2008, including:
- Birds Directive Annex I species and other regularly occurring migratory species, and their habitats (wherever they occur);
- Habitats Directive Annex I habitats, Annex II species and their habitats, and Annex IV species and their breeding sites and resting places (wherever they occur);
- Other habitats of ecological value in a national to local context, including rocky habitats in the general area;

• Stepping stones and ecological corridors encapsulated by Article 10 of the Habitats Directive.

The report has been compiled in compliance with the European Communities Legal requirements and follows EPA Guidelines on Information to be contained in an EIAR (EPA, 2022) and on Transport Infrastructure Ireland TII policy and guidance outlined in Section 2.

The European Habitats Directive 92/43/EEC (Article 6) indicates the need for plans and projects to be subject to Habitats Directive Assessment (also known as Appropriate Assessment) if the plan or project not directly connected with or necessary to the management of a Natura 2000 site (which includes SACs and SPAs) but which has the potential to have implications on a site's conservation objectives. These implications can be significant effects either individually or in combination with other plans or projects.

As such, a report for the purposes of Appropriate Assessment Screening was undertaken by Moore Group for the proposed development in support of the application. This stand-alone report is presented separately as part of the design package for the Project.

The site location is presented in Figure 1 below.



Figure 1. Showing the site location at Barndarrig, Co. Wicklow.

2. ASSESSMENT METHODOLOGY

2.1. POLICY & LEGISLATION

2.1.1. EU Habitats Directive

The "Habitats Directive" (Council Directive 92/43/EEC) on the Conservation of Natural Habitats and of Wild Flora and Fauna) is the main legislative instrument for the protection and conservation of biodiversity within the European Union. The Habitats Directive provides for the designation, conservation and protection of sites comprising Special Areas of Conservation (SACs) and Special Protection Areas (SPAs), collectively forming the Natura 2000 network of 'European sites'. Article 3 of the Habitats Directive obliges Member States to designate as SACs sites hosting the natural habitat types listed in Annex I and habitats of the species listed in Annex II of the Habitats Directive. Article 10 of the Habitats Directive requires that Member States endeavour to improve the ecological coherence of the Natura 2000 network to manage and conserve features of the landscape which are of major importance for wild fauna and flora, for example ecological corridors or stepping-stones which are important for the migration, dispersal and genetic exchange of species.

Article 6(2) obliges Member States to take the necessary measures to avoid the deterioration of an SAC, or disturbance of a species for which the site is designated. Article 6(3) sets out the requirement for an "Appropriate Assessment", to ensure that a proposed plan or project will not have an adverse effect on the integrity of a SAC. Article 7 applies the requirements of Article 6(2) and 6(3) of the Habitats Directive to SPAs designated under the Birds Directive.

In addition and separate to the Appropriate Assessment requirements, Article 12 of the Habitats Directive obliges Member States to establish a regime of strict protection for certain species listed in Annex IV of the Directive, wherever they occur within their natural range. The protection for species under Article 12 of the Habitats Directive is not confined to the boundary of SACs. Species listed in Annex IV include the otter and certain species of bat.

2.1.2. EU Birds Directive

The "Birds Directive" (European Council (2009) Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds) confers legal protection to all naturally occurring wild birds within the EU territory. Member States are obliged to adopt the necessary measures to maintain the population of bird species, and that includes, in accordance with Article 3, an obligation to create, maintain and manage habitats for birds, and specifically for the species of Bird listed in Annex I of the Directive, Article 4 requires Member States to create SPAs which, by virtue of Article 7 of the Habitats Directive, form part of the Natura 2000 network of European sites and are subject to the Appropriate Assessment requirements under Article 6(3) of the Habitats Directive.

Additionally, Article 5 of the Birds Directive requires that Member States establish a general system of protection for all naturally occurring wild birds within the EU territory, similar to the system of strict protection required for Annex IV species under the Habitats Directive.

2.1.3. Wildlife Acts 1976 - 20241

The primary domestic legislation providing for the protection of wildlife in general, and wild birds in particular, and the control of some activities adversely impacting upon wildlife is the Wildlife Act of 1976, as amended. The aims of the Wildlife Act, according to the National Parks and Wildlife Service (NPWS) are "... to provide for the protection and conservation of wild fauna and flora, to conserve a representative sample of important ecosystems, to provide for the development and protection of game resources and to regulate their exploitation, and to provide the services necessary to accomplish such aims." All wild bird species are protected under the Act. The European Communities (Birds and Natural Habitats) Regulations 2011 (S.I. No. 477 of 2011) made significant amendments to the Wildlife Acts to ensure consistency with the Habitats and Birds Directives.

2.2. SURVEY METHODOLOGY

2.2.1. Desk Study

The assessment was carried out in three stages, firstly through desktop assessment to determine existing records in relation to habitats and species present in the potential Zone of Influence of the Proposed Development. This included research on the NPWS metadata website, the National Biodiversity Data Centre (NBDC) database and a literature review of published information on flora and fauna occurring in the development area.

Sources of information that were used to collate data on biodiversity in the potential Zone of Influence are listed below:

- The following mapping and Geographical Information Systems (GIS) data sources, as required:
 - o National Parks & Wildlife (NPWS) protected site boundary data;
 - Ordnance Survey of Ireland (OSI) mapping and aerial photography;
 - o OSI/ Environmental Protection Agency (EPA) rivers and streams, and catchments;
 - Open Street Maps;
 - Digital Elevation Model over Europe (EU-DEM);
 - Google Earth and Bing aerial photography 1995-2025;
- Online data available on Natura 2000 sites as held by the National Parks and Wildlife Service (NPWS) from www.npws.ie including:
 - Natura 2000 Standard Data Form;

¹ Wildlife Act 1976, as amended. Administrative consolidation of the Wildlife Act 1976, Law Reform Commission (2024)

- Conservation Objectives;
- Site Synopses;
- National Biodiversity Data Centre records;
 - Online database of rare, threatened and protected species;
 - Publicly accessible biodiversity datasets.
- Status of EU Protected Habitats in Ireland. (National Parks & Wildlife Service, 2019); and
- Relevant Development Plans in neighbouring areas:
 - Wicklow County Development Plan 2022-2028

2.2.2. Field Study

The second phase of the assessment involved a site visit to establish the existing environment in the footprint of the proposed development area. Areas which were highlighted during desktop assessment were investigated in closer detail according to the Heritage Council Best Practice Guidance for Habitat Survey and Mapping (Smith *et al.*, 2011). Habitats in the proposed development area were classified according to the Heritage Council publication "A Guide to Habitats in Ireland" (Fossitt, 2000). This publication sets out a standard scheme for identifying, describing and classifying wildlife habitats in Ireland. This form of classification uses codes to classify different habitats based on the plant species present. Species recorded in this report are given in both their Latin and English names. Latin names for plant species follow the nomenclature of "An Irish Flora" (Parnell & Curtis, 2012).

Habitats were surveyed on the 29 October 2024 by conducting a study area walkover covering the main ecological areas identified in the desktop assessment. The survey date is outside the optimal botanical survey period. However, it is adequate given the typical agricultural habitats present on site. A photographic record was made of features of interest.

Signs of mammals such as badgers and otters were searched for while surveying the study area noting any sights, signs or any activity in the vicinity especially along adjacent boundaries.

Birds were surveyed using standard transect methodology and signs were recorded where encountered during the field walkover surveys.

2.2.3. Site Evaluation and Impact Assessment

The final part of the assessment involves an evaluation of the study area and determination of the potential impacts on the habitats of the study area. This part of the assessment forms the basis for Impact Assessment and is based on the following guidelines and publications:

- Guidelines for Ecological Impact Assessment in the UK And Ireland Terrestrial, Freshwater,
 Coastal and Marine September 2018 Version 1.1 Updated September 2019 (CIEEM, 2019);
- EPA Guidelines on Information to be contained in an EIAR (EPA, 2022);
- Best Practice Guidance for Habitat Survey and Mapping (Heritage Council, 2011);

- Ecological Surveying Techniques for Protected Flora & Fauna (NRA, 2008);
- Guidelines for Assessment of Ecological Impacts of National Road Schemes (NRA, 2009);
- Appropriate Assessment of Plans and Projects in Ireland Guidance for Planning Authorities (DEHLG, December 2009, Rev 2010);
- Guidance document on Article 6(4) of the Habitats Directive 92/43/EEC (EC, 2007).

While prepared for linear projects the TII Guidelines for Assessment of Ecological Impacts of National Road Schemes (NRA, 2009) are still relevant and outlines the methodology for evaluating ecological impacts of the project in the present report. According to the TII Guidelines, the Ecological Study should address:

- Designated conservation areas and sites proposed for designation within the zone(s) of influence of any of the Project options,
- All the main inland surface waters (e.g. rivers, streams, canals, lakes and tanks) that are intersected by any of the route corridor options, including their fisheries value and any relevant designations,
- Aquifers and dependent systems and turloughs and their subterranean water systems,
- Any known or potentially important sites for rare or protected flora or fauna that occur along
 or within the zone(s) of influence of any of the route options,
- Any other sites of ecological value, that are not designated, along or in close proximity to any
 of the route corridor options,
- Any other relevant conservation designations or programmes (e.g. catchment management schemes, habitat restoration or creation projects, community conservation projects, etc.),
- Any other features of particular ecological or conservation significance along any of the route options.

The TII Guidelines set out a method of evaluating the importance of sites identified and in turn the evaluation of the significance of impacts. The Evaluation Scheme is presented in Appendix 1 for reference.

Impact Assessment is then based on CIEEM Guidelines for Ecological Impact Assessment in the UK and Ireland, 2019.

3. PROJECT DESCRIPTION

The Proposed Development consists of the construction and operation of a residential development at lands at Barndarrig, Co. Wicklow, of 17 social units and 3 group housing units which comprises of:

- 8 no. 3 Bedroom/5 Person/2 storey units each 98.2m² (8 x 98.2 = 785.6 m²)
- 6 no. 2 Bedroom /4 Person/2 storey units each $85m^2$ (6 x $85 = 510m^2$)

• 3 no. 1 Bedroom /2 Person/age friendly each 49.4 m^2 (3 x $49.4 = 148.2 \text{ m}^2$)

The site is connected to municipal sewer and wastewater will be treated appropriately.

Figure 2 shows a detailed view of the existing site on high resolution aerial photography. Figure 3 shows the positions and layout of the proposed development.



Figure 2. Showing the Proposed Development boundary on recent aerial photography.

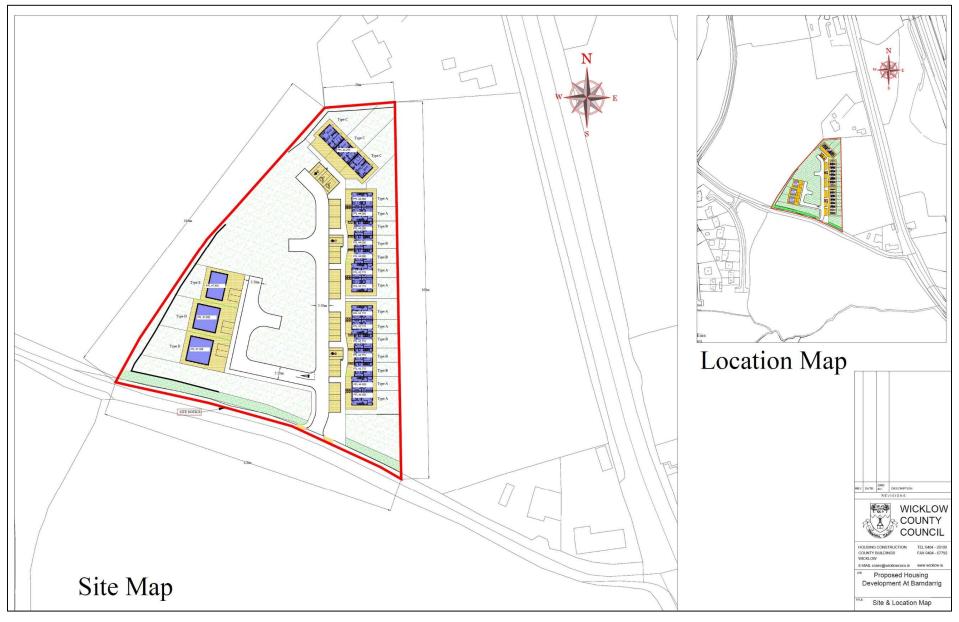


Figure 3. Plan showing layout of proposed development.

Moore Group (info@mooregroup.ie)

4. EXISTING ENVIRONMENT

4.1. DESIGNATED CONSERVATION AREAS

A Zone of Influence (ZoI) of a proposed development is the geographical area over which it could affect the receiving environment in a way that could have significant effects on the Qualifying Interests of a European site. In accordance with the OPR Practice Note (2021), PN01, the ZoI should be established on a case-by-case basis using the Source- Pathway-Receptor framework.

The European Commission's "Assessment of plans and projects in relation to Natura 2000 sites guidance on Article 6(3) and (4) of the Methodological Habitats Directive 92/43/EEC" published 28 September 2021 states at section 3.1.3, that:

"Identifying the Natura 2000 sites that may be affected should be done by taking into consideration all aspects of the plan or project that could have potential effects on any Natura 2000 sites located within the zone of influence of the plan or project. This should take into account all of the designating features (species, habitat types) that are significantly present on the sites and their conservation objectives. In particular, it should identify:

- any Natura 2000 sites geographically overlapping with any of the actions or aspects of the plan or project in any of its phases, or adjacent to them;
- any Natura 2000 sites within the likely zone of influence of the plan or project Natura 2000 sites located in the surroundings of the plan or project (or at some distance) that could still be indirectly affected by aspects of the project, including as regards the use of natural resources (e.g. water) and various types of waste, discharge or emissions of substances or energy;
- Natura 2000 sites in the surroundings of the plan or project (or at some distance) which host fauna that can move to the project area and then suffer mortality or other impacts (e.g. loss of feeding areas, reduction of home range);
- Natura 2000 sites whose connectivity or ecological continuity can be affected by the plan or project".

The range of Natura 2000 sites to be assessed, i.e. the zone in which impacts from the plan or project may arise, will depend on the nature of the plan or project and the distance at which effects may occur. For Natura 2000 sites located downstream along rivers or wetlands fed by aquifers, it may be that a plan or project can affect water flows, fish migration and so forth, even at a great distance. Emissions of pollutants may also have effects over a long distance. Some projects or plans that do not directly affect Natura 2000 sites may still have a significant impact on them if they cause a barrier effect or prevent ecological linkages. This may happen, for example, when plans affect features of the landscape that connect Natura 2000 sites or that may obstruct the movements of species or disrupt the continuity

of a fluvial or woodland ecosystem. To determine the possible effects of the plan or project on Natura 2000 sites, it is necessary to identify not only the relevant sites but also the habitats and species that are significantly present within them, as well as the site objectives.

The Zone of Influence may be determined by considering the Proposed Development's potential connectivity with European sites, in terms of:

- Nature, scale, timing and duration of all aspects of the proposed works and possible impacts, including the nature and size of excavations, storage of materials, flat/sloping sites;
- Distance and nature of potential pathways (dilution and dispersion; intervening 'buffer' lands, roads etc.); and
- Location of ecological features and their sensitivity to the possible impacts.

The potential for source pathway receptor connectivity is firstly identified through GIS interrogation and detailed information is then provided on sites with connectivity. European sites that are located within a potential Zone of Influence of the Proposed Development are listed in Table 1 and presented in Figures 4 and 5, below. Spatial boundary data on the Natura 2000 network was extracted from the NPWS website (www.npws.ie) on 21 July 2025. This data was interrogated using GIS analysis to provide mapping, distances, locations and pathways to all sites of conservation concern including pNHAs, NHA and European sites.

Table 1 European Sites located within the potential Zone of Influence² of the Proposed Development.

Site Code	Site name	Distance (km) ³
000729	Buckroney-Brittas Dunes and Fen SAC	4.16
001766	Magherabeg Dunes SAC	4.75

The nearest European site to the Proposed Development is the Buckroney-Brittas Dunes and Fen SAC (Site Code 000729), 4.16km to the southeast. The Magherabeg Dunes SAC (Site Code 001766) is 4.75km to the east, but lacks any connectivity and is screened out at this stage. There are no other European sites within the Zone of Influence of the Proposed Development.

The Proposed Development is located in the village of Barndarrig, and within the hydrological catchment of the Potter's River, which flows through part of the Buckroney-Brittas Dunes and Fen SAC, and enters the Irish Sea at Potters Point. A review of aerial photography, Ordnance Survey Ireland (OSI) mapping and OSI Geographical Information System (GIS) data for rivers and streams indicates that there are no notable surface water features onsite and no direct hydrological pathways to offsite surface water bodies. This was confirmed during fieldwork on habitat assessment on 29 October 2024.

² All European sites potentially connected irrespective of the nature or scale of the Proposed Development.

³ Distances indicated are the closest geographical distance between the Proposed Development and the European site boundary, as made available by the NPWS.

Rockbrae RD EciA 24213

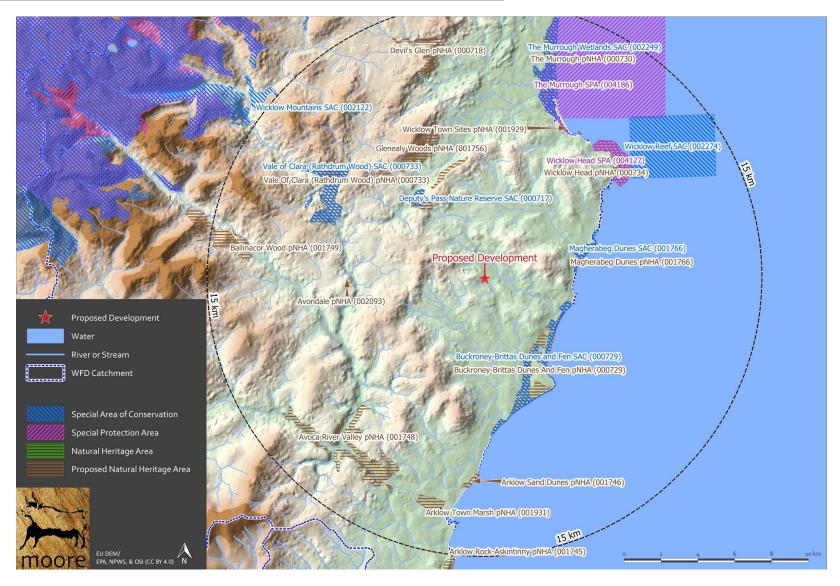


Figure 4. Showing European sites and NHAs/pNHAs within the wider Potential Zone of Influence of the Proposed Development.

Rockbrae RD EcIA 24213



Figure 5. Detailed view of European sites in the nearer Potential Zone of Influence of the Proposed Development.

4.2. HABITAT DESCRIPTIONS

There are no records of rare plants in the 1km square in which the site is located (T2786) in the NBDC database. The proposed development comprises a triangular field of improved grassland, surrounded by hedgerows, and with some minor scrub encroachment from hedgerows to the grassland. A habitat map is not necessary as the site is visible in the aerial photography in Figure 2.

The grassland is typical of improved grassland after a short period of neglect, with considerable populations of Nettle (*Urtica dioica*), Ragwort (*Jacobaea vulgaris*), Creeping Buttercup (*Ranunculus repens*) and Bracken (*Pteridium aquilinum*) throughout. The hedgerows have a mix of species, with Ash (*Fraxinus excelsior*), Hawthorn (*Crataegus monogyna*), Beech (*Fagus sylvatica*) and Gorse (*Ulex europaeus*), with abundant lvy (*Hedera hibernica*) and Bramble (*Rubus fruticosus*) throughout.

There were no Third Schedule invasive species recorded at the proposed development site.

4.1. FAUNA

4.1.1. Mammals

Otters

There are no otter habitats in the study area and no potential for otters on the site.

Badgers

There are no badger setts in the study area and no potential for badgers on the site. The field boundaries were surveyed and no setts were recorded.

Bats

The taller trees along the field boundary were assessed to have little potential for bat roosting.

5. ASSESSMENT OF IMPACTS

5.1. SITE EVALUATION

Due cognisance of features of the landscape which are of major importance for wild flora and fauna, such as those with a "stepping stone" and ecological corridors function, as referenced in Article 10 of the Habitats Directive were considered in this assessment.

The ecological value of the site was assessed following the guidelines set out in the Institute of Ecology and Environmental Management's Guidelines for Ecological Impact Assessment (2019) and according to the Natura Scheme for evaluating ecological sites (after Nairn & Fossitt, 2004). Judgements on the evaluation were made using geographic frames of reference, *e.g.* European, National, Regional or Local.

Following a detailed literature review, desktop assessment and field survey the footprint of the proposed development site can be categorised into the following habitat types:

- Improved agricultural grassland (GA1)
- Hedgerows (WL1)

There were no rare or protected species recorded on the site and there were no records of Third Schedule invasive species on site.

The habitats under the footprint of the proposed development are of moderate to low local ecological value with the hedgerows of some obvious habitat and connectivity value.

There are no annexed habitats or species on site and no pathways to offsite conservation sites. There is no connectivity with any European sites. All foul and surface water runoff, once the facility is operational, will be contained on site and discharged to urban drainage systems.

There is no real likelihood of any significant effects on European Sites in the wider catchment area. The facility is located at a distance of removal such that there will be no disturbance to qualifying interest species in any European sites.

5.2. IMPACT ASSESSMENT

5.2.1. Direct Impacts

Habitats

The new development areas are of moderate to low local biodiversity value and there will be a minor local insignificant loss of improved grassland and small sections of poor quality hedgerow.

<u>Fauna</u>

Otters

There will be no direct or indirect impact on otters.

Badgers

There will be no direct or indirect impact on badgers.

Bats

The hedgerows were assessed for bat roosts, and no Potential Bat Roost Features were recorded . There will be no direct impact on roosting bats.

Birds

There are no predicted significant effects on birds. Potential effects on nesting birds can be avoided by standard timing avoiding tree surgery in the nesting season.

5.2.2. Indirect Impacts

The development is connected to municipal sewer and wastewater will be treated appropriately. All sites listed with the exception of Buckroney-Brittas Dunes and Fen SAC are considered to be outside the zone of influence of the Proposed Development.

5.2.3. Cumulative Impacts

Cumulative effects are described by the EPA as the addition of many minor or insignificant effects, including effects of other projects, to create larger, more significant effects. In combination effects are considered in the appropriate assessment process as an assessment of the potential adverse effects of a plan or project in combination with other plans or projects. The underlying intention of the in-combination provision is to take account of cumulative effects.

A review of the planning section of the Wicklow County Council website indicates that, within the last three years, the following development have been granted planning permission within 500m of the Proposed Development, presented in Table 2 below.

There are no predicted in-combination effects given the Proposed Development will have no significant effects on Biodiversity.

Table 2 Planning applications granted permission in the vicinity of the Proposed Development.

Planning Ref.	Description of development	Comments
201322	(1) Proposed 7 No. 4 bedroom detached split level 2-storey houses & ancillary site development works including estate road at Ballinacor West, Barndarrig, (2) Proposed foul sewer connection to existing public sewer & surface water sewer outfall to soakaway / watercourse on adjoining lands at Ballinacor East, Barndarrig	No potential for in-combination effects given the Proposed Development will have no significant effects on Biodiversity.
23332	Expanded vehicular parking to the south east portion of the site into a former greenfield area; roof cover over customer sit-down area including wooden benches for customer recreation and dining purposes; 7 no. open container storage sheds along the western boundary of the curtilage of this site, adjacent to the service station building, for the storage and display of retail goods; prefabricated single storey wooden building for security accommodation; prefabricates wooden shed for storage use; wastewater treatment services to serve the prefabricated chalet; and all associated ground hard core, paving and soft landscaping works	No potential for in-combination effects given the Proposed Development will have no significant effects on Biodiversity.

6. CONCLUSIONS

There are no significant impacts predicted from the proposed development on habitats, flora, fauna or biodiversity.

Should best practice guidelines for the prevention of invasive species spread be adhered to, no potential for the spread or introduction of high impact invasive species are foreseen as a result of this Scheme.

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Appendix 1 TII Evaluation of Habitats

Ecological valuation: Examples		County Importance:
International Importance:		☐ Area of Special Amenity.9
	'European Site' including Special Area of Conservation (SAC), Site of Community Importance	Area subject to a Tree Preservation Order.
_	(SCI), Special Protection Area (SPA) or proposed Special Area of Conservation.	Area of High Amenity, or equivalent, designated under the County Development Plan.
	Proposed Special Protection Area (pSPA).	☐ Resident or regularly occurring populations (assessed to be important at the County level) ¹⁰ of
	Site that fulfills the criteria for designation as a 'European Site' (see Annex III of the Habitats	the following:
	Directive, as amended).	 Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive;
	Features essential to maintaining the coherence of the Natura 2000 Network. ⁴	 Species of animal and plants listed in Annex II and/or IV of the Habitats Directive;
	Site containing 'best examples' of the habitat types listed in Annex I of the Habitats Directive.	☐ Species protected under the Wildlife Acts; and/or
	Resident or regularly occurring populations (assessed to be important at the national level) ⁵ of	Species listed on the relevant Red Data list.
	the following:	☐ Site containing area or areas of the habitat types listed in Annex I of the Habitats Directive
	 Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive; and/or 	that do not fulfil the criteria for valuation as of International or National importance.
	☐ Species of animal and plants listed in Annex II and/or IV of the Habitats Directive.	County important populations of species, or viable areas of semi-natural habitats or natural
	Ramsar Site (Convention on Wetlands of International Importance Especially Waterfowl	heritage features identified in the National or Local BAP, i if this has been prepared.
	Habitat 1971).	Sites containing semi-natural habitat types with high biodiversity in a county context and a high degree of naturalness, or populations of species that are uncommon within the county.
	$World\ Heritage\ Site\ (Convention\ for\ the\ Protection\ of\ World\ Cultural\ \&\ Natural\ Heritage, 1972).$	☐ Sites containing habitats and species that are rare or are undergoing a decline in quality or
	Biosphere Reserve (UNESCO Man & The Biosphere Programme).	extent at a national level.
	Site hosting significant species populations under the Bonn Convention (Convention on the	
_	Conservation of Migratory Species of Wild Animals, 1979).	Local Importance (higher value):
П	Site hosting significant populations under the Berne Convention (Convention on the Conservation of European Wildlife and Natural Habitats, 1979).	 Locally important populations of priority species or habitats or natural heritage features
	Biogenetic Reserve under the Council of Europe.	identified in the Local BAP, if this has been prepared;
	European Diploma Site under the Council of Europe.	Resident or regularly occurring populations (assessed to be important at the Local level) ¹² of
	Salmonid water designated pursuant to the European Communities (Quality of Salmonid	the following:
	Waters) Regulations, 1988, (S.I. No. 293 of 1988).6	Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive;
Nation	nal Importance:	Species of animal and plants listed in Annex II and/or IV of the Habitats Directive;
	Site designated or proposed as a Natural Heritage Area (NHA).	Species protected under the Wildlife Acts; and/or
	Statutory Nature Reserve.	Species listed on the relevant Red Data list.
	Refuge for Fauna and Flora protected under the Wildlife Acts.	 Sites containing semi-natural habitat types with high biodiversity in a local context and a high degree of naturalness, or populations of species that are uncommon in the locality;
	National Park.	☐ Sites or features containing common or lower value habitats, including naturalised species that
	Undesignated site fulfilling the criteria for designation as a Natural Heritage Area (NHA);	are nevertheless essential in maintaining links and ecological corridors between features of
	Statutory Nature Reserve; Refuge for Fauna and Flora protected under the Wildlife Act; and/or	higher ecological value.
_	a National Park.	Local Formation of Community (
	Resident or regularly occurring populations (assessed to be important at the national level) ⁷ of the following:	Local Importance (lower value):
	□ Species protected under the Wildlife Acts; and/or	Sites containing small areas of semi-natural habitat that are of some local importance for wildlife;
	□ Species listed on the relevant Red Data list.	☐ Sites or features containing non-native species that are of some importance in maintaining
	Site containing 'viable areas' of the habitat types listed in Annex I of the Habitats Directive.	habitat links.

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Appendix 2 Site Photos



Photo 1. Showing the grassland with abundant ragwort and nettle.



Photo 2. Typical unmanaged hedgerow with abundant bramble and bracken.