

## 13. CULTURAL HERITAGE

### 13.1 Introduction

This cultural heritage chapter was prepared by Tobar Archaeological Services Ltd. It presents the results of an archaeological, architectural and cultural heritage impact assessment of the construction, operation and decommissioning of the Proposed Project, located at Laurclavagh and adjacent townlands in Co. Galway.

The purpose of this chapter is to assess the potential direct and indirect effects of the Proposed Project on the surrounding archaeological, architectural and cultural heritage landscape. The assessment is based on both a desktop review of the available cultural heritage and archaeological data and a field inspection of the Proposed Project footprint and EIAR Site Boundary. An assessment of potential effects, including cumulative effects, is presented.

For the purposes of this EIAR:

- The 'Proposed Wind Farm' refers to the 8 no. turbines and supporting infrastructure which is the subject of this Section 37E application.
- The 'Proposed Grid Connection' refers to the 110kV substation and supporting infrastructure which will be the subject of a separate Section 182A application.
- The 'Proposed Project' comprises the Proposed Wind Farm and the Proposed Grid Connection, all of which are located within the EIAR Site Boundary (the 'Site') and assessed together within this EIAR.

A detailed description of the Proposed Project is provided in Chapter 4 of this EIAR.

### 13.1.1 Proposed Project

The Proposed Project is assessed in this chapter. The Proposed Project will consist the construction of up to 8 turbines, upgrade of existing and provision of new site roads and all associated site works. The Proposed Wind Farm will connect to the proposed onsite 110kV substation. It is proposed to then connect this substation to the existing 110kV Cloon Substation via 14.3km long underground cabling. The Cloon 110kV Substation is located approximately 6.1km northeast of the Proposed Wind Farm . A full description of all elements of the Proposed Project is detailed in Chapter 4 of this EIAR.

### 13.1.2 Location and Topography

The Proposed Project is located approximately 9 kilometres (km) southwest of Tuam, and approximately 9.8km north of Claregalway, Co. Galway. The approximate centre of the site is X536893 Y744000 (ITM). The Site covers an area of approximately 945 hectares, in total, and is divided into two distinct areas; the Proposed Wind Farm site, and the Proposed Grid Connection underground cabling route. The Proposed Wind Farm site predominantly comprises pastoral agricultural land.

### 13.1.3 Statement of Authority

This chapter of the Environmental Impact Assessment Report (EIAR) has been prepared by Miriam Carroll of Tobar Archaeological Services Ltd. Miriam graduated from University College Cork in 1998 with a Masters degree in Methods and Techniques in Irish Archaeology. She is licensed by the Department of Housing, Local Government and Heritage (DHLGH) to carry out excavations and is a member of the Institute of Archaeologists of Ireland. Miriam has been working in the field of archaeology since 1994 and has undertaken numerous projects for both the private and public sectors including

excavations, site assessments (EIAR) and surveys. Miriam Carroll is a director of Tobar Archaeological Services which has been in operation for 20 years.

## 13.1.4 Relevant Guidance and Legislation

### 13.1.4.1 Guidance

The assessment of the potential effects of the Proposed Project on cultural heritage has been carried out in accordance with the various planning policies and strategy guidance detailed in Section 1.2 in Chapter 1 of this EIAR and the following:

- Architectural Heritage Protection Guidelines for Planning Authorities (Department of Arts, Heritage and the Gaeltacht, 2011).
- Advice Notes on Current Practice (in preparation of Environmental Impact Statements) (Environmental Protection Agency (EPA), 2003).
- Guidelines on the information to be contained on the Environmental Impact Assessment Report (EPA, 2022).
- Department of Arts, Heritage, Gaeltacht and the Islands, 1999, Framework and Principles for the Protection of the Archaeological Heritage, 1999.
- Guidance on Setting and the Historic Environment, Historic Environment Division, February 2018.
- European Commission (2002). Assessment of plans and projects significantly affecting Natura 2000 sites. Publications Office of the European Union, Luxembourg.
- European Commission (2020). Guidance document on wind energy developments and EU nature legislation. Publications Office of the European Union, Luxembourg.
- Planning and Development Act 2000 (as amended).
- NRA (2009). Guidelines for Assessment of Ecological Impacts of National Road Schemes. National Roads Authority, Ireland.
- DoHPLG (2018). Guidelines for planning authorities and An Bord Pleanála on carrying out Environmental Impact Assessment. Department of Housing, Planning and Local Government, Government of Ireland, Dublin.
- Galway County Council (2022). Galway County Development Plan 2022-2028.

### 13.1.4.2 Legislation

Archaeological monuments are safeguarded through national and international policy, which is designed to secure the protection of the cultural heritage resource. This is undertaken in accordance with the provisions of the European Convention on the Protection of the Archaeological Heritage (Valletta Convention). This was ratified by Ireland in 1997.

Both the National Monuments Acts 1930 to 2004 and relevant provisions of the Cultural Institutions Act 1997 are the primary means of ensuring protection of archaeological monuments, the latter of which includes all man-made structures of whatever form or date. There are a number of provisions under the National Monuments Acts which ensure protection of the archaeological resource. These include the Register of Historic Monuments (1997 Act) which means that any interference to a monument is illegal under that Act. All registered monuments are included on the Record of Monuments and Places (RMP).

The Record of Monuments and Places (RMP) was established under Section 12 (1) of the National Monuments (Amendment) Act 1994 and consists of a list of known archaeological monuments and accompanying maps. The Record of Monuments and Places affords some protection to the monuments entered therein. Section 12 (3) of the 1994 Amendment Act states that any person proposing to carry out work at or in relation to a recorded monument must give notice in writing to the Minister (Environment, Heritage and Local Government) and shall not commence the work for a period of two months after having given the notice. All proposed works, therefore, within or around any

archaeological monument are subject to statutory protection and legislation (National Monuments Acts 1930-2004).

The term ‘national monument’ as defined in Section 2 of the National Monuments Act 1930 means a monument *‘the preservation of which is a matter of national importance by reason of the historical, architectural, traditional, artistic or archaeological interest attaching thereto’*. National monuments in State care include those which are in the ownership or guardianship of the Minister for Arts, Heritage and the Gaeltacht. Section 5 of the National Monuments Act (1930) allows owners of other national monuments to appoint the Minister for the Arts, Heritage and the Gaeltacht or the relevant local authority as guardian of such monuments, subject to their consent. This means in effect that while the property of such a monument remains vested in the owner, its maintenance and upkeep are the responsibility of the State. Some monuments are also protected by Preservation Orders and are also regarded as National Monuments. National Monuments also includes (but not so as to limit, extend or otherwise influence the construction of the foregoing general definition) every monument in Saorstát Éireann to which the Ancient Monuments Protection Act, 1882, applied immediately before the passing of this Act, and the said expression shall be construed as including, in addition to the monument itself, the site of the monument and the means of access thereto and also such portion of land adjoining such site as may be required to fence, cover in, or otherwise preserve from injury the monument or to preserve the amenities thereof.

Under the Heritage Act (1995) architectural heritage is defined to include *‘all structures, buildings, traditional and designed, and groups of buildings including street-scapes and urban vistas, which are of historical, archaeological, artistic, engineering, scientific, social or technical interest, together with their setting, attendant grounds, fixtures, fittings and contents...’*. A heritage building is also defined to include *‘any building, or part thereof, which is of significance because of its intrinsic architectural or artistic quality or its setting or because of its association with the commercial, cultural, economic, industrial, military, political, social or religious history of the place where it is situated or of the country or generally’*.

### 13.1.4.3 Granada Convention

The Council of Europe, in Article 2 of the 1985 Convention for the Protection of the Architectural Heritage of Europe (Granada Convention), states that *‘for the purpose of precise identification of the monuments, groups of structures and sites to be protected, each member State will undertake to maintain inventories of that architectural heritage’*. The Granada Convention emphasises the importance of inventories in underpinning conservation policies.

The NIAH was established in 1990 to fulfil Ireland's obligations under the Granada Convention, through the establishment and maintenance of a central record, documenting and evaluating the architectural heritage of Ireland. Article 1 of the Granada Convention establishes the parameters of this work by defining 'architectural heritage' under three broad categories of Monument, Groups of Buildings, and Sites:

- Monument: all buildings and structures of conspicuous historical, archaeological, artistic, scientific, social or technical interest, including their fixtures and fittings;
- Group of buildings: homogeneous groups of urban or rural buildings conspicuous for their historical, archaeological, artistic, scientific, social or technical interest, which are sufficiently coherent to form topographically definable units;
- Sites: the combined works of man and nature, being areas which are partially built upon and sufficiently distinctive and homogenous to be topographically definable, and are of conspicuous historical, archaeological, artistic, scientific, social or technical interest.

The Council of Europe's definition of architectural heritage allows for the inclusion of structures, groups of structures and sites which are considered to be of significance in their own right, or which are of significance in their local context and environment. The NIAH believes it is important to consider the

architectural heritage as encompassing a wide variety of structures and sites as diverse as post boxes, grand country houses, mill complexes and vernacular farmhouses.

#### 13.1.4.4 Galway County Development Plan 2022-2028

The Galway County Development Plan 2022-2028 outlines a number of policies and objectives relating to archaeology and cultural heritage as follows:

##### 13.1.4.4.1 Archaeological Heritage

###### ARC 1 Legislative Context

Support and promote the preservation, conservation and appropriate management and enhancement of the County's archaeological sites and monuments, together with the settings of these monuments, having regard to the legislative, statutory and policy provisions relevant to the conservation of the archaeological heritage.

###### ARC 2 Archaeological Sites

Seek to encourage and promote awareness of and access to archaeological heritage of the County for all, through the provision of information to landowners and the community generally, in co-operation with statutory and other partners.

###### ARC 3 Archaeological Landscapes

To facilitate where possible the identification of important archaeological landscapes in the County.

###### ARC 4 Protection of Archaeological Sites

Protect archaeological sites and monuments their settings and visual amenity and archaeological objects and underwater archaeological sites that are listed in the Record of Monuments and Places, in the ownership/guardianship of the State, or that are subject of Preservation Orders or have been registered in the Register of Historic Monuments, or that are newly discovered and seek to protect important archaeological landscapes.

###### ARC 5 Development Management

All planning applications for new development, redevelopment, any ground works, refurbishment, and restoration, etc. within areas of archaeological potential or within close proximity to Recorded Monuments or within the historic towns of County Galway will take account of the archaeological heritage of the area and the need for archaeological mitigation.

###### ARC 6 Burial Grounds

Protect the burial grounds, identified in the Record of Monuments and Places, in co-operation with the National Monuments Service of the Department of Housing, Local Government and Heritage. Encourage the local community to manage burial grounds in accordance with best conservation and heritage principles.

###### ARC 7 Battlefield Sites

Protect the Battle of Aughrim site and other battlefield sites and their settings.

### ARC 8 Underwater Archaeological Sites

To protect and preserve the archaeological value of underwater archaeological sites and associated features. In assessing proposals for development, the Council will take account of the potential underwater archaeology of rivers, lakes, intertidal and sub-tidal locations.

### ARC 9 Recorded Monuments

Ensure that any development in the immediate vicinity of a Recorded Monument is sensitively designed and sited and does not detract from the monument or its visual amenity.

### ARC 10 Zones of Archaeological Potential

To protect the Zones of Archaeological Potential located within both urban and rural areas and around archaeological monuments generally as identified in the Record of Monuments and Places. Any development within the ZAPs will need to take cognisance of the potential for subsurface archaeology and if archaeology is demonstrated to be present appropriate mitigation (such as preservation in situ/buffer zones) will be required.

### ARC 11 Industrial and Post Medieval Archaeology

Protect and preserve the archaeological value of industrial and post medieval archaeology such as mills, limekilns, bridges, piers, harbours, penal chapels and dwellings. Proposals for refurbishment, works to or redevelopment/conversion of these sites should be subject to careful assessment.

### ARC 12 Archaeology and Infrastructure Schemes

Have regard to archaeological concerns when considering proposed service schemes (including electricity, sewerage, telecommunications, water supply) and proposed roadwork's (both realignments and new roads) located in close proximity to Recorded Monuments and Places and their known archaeological monuments.

## 13.1.4.4.2 **Architectural Heritage**

The plan also outlines policies and objectives in relation to architectural heritage including Protected Structures.

### AH 1 Architectural Heritage

Ensure the protection of the architectural heritage of County Galway which is a unique and special resource, having regard to the policy guidance contained in the Architectural Heritage Protection Guidelines 2011 (and any updated/superseding document).

### AH 2 Protected Structures (Refer to Appendix 6)

(a) Ensure the protection and sympathetic enhancement of structures including their curtilage and attendant grounds included and proposed for inclusion in the Record of Protected Structures (RPS) that are of special architectural, historical, archaeological, artistic, cultural, scientific, social or technical interest, together with the integrity of their character and setting. (b) Review the Record of Protected Structures in order to provide a comprehensive schedule for the protection of structures of special importance in the County during the lifetime of the plan. (c) Ensure that development proposals are appropriate in terms of architectural treatment, character, scale and form to the existing protected structure and not detrimental to the special character and integrity of the protected structure and its setting. (d) Ensure high quality architectural design of all new developments relating to or which may

impact on structures (and their settings) included in the Record of Protected Structures. (e) Promote and ensure best conservation practice through the use of specialist conservation professionals and craft persons. (f) Prohibit development proposals, either in whole or in part, for the demolition of protected structures, save in exceptional circumstances.

### AH 3 Protection of Structure on the NIAH

Give regard to and consideration of all structures which are included in the NIAH for County Galway, which are not currently included in the Record of Protected Structures, in development management functions.

### AH 4 Architectural Conservation Areas (Refer to Appendix 7)

Protect, conserve and enhance the special character of the Architectural Conservation Areas (ACA) included in this plan through the appropriate management and control of the design, location and layout of new development, modifications, alterations or extensions to existing structures, surviving historic plots and street patterns and/or modifications to the character or setting of the Architectural Conservation Area. Works within the ACA shall ensure the conservation of traditional features and building elements that contribute to the character of the area. The special character of an area includes its traditional building stock and material finishes, spaces, streetscape, shop fronts, landscape and setting. New proposals shall have appropriate regard to scale, plot, form, mass, design, materials, colours and function. This will be achieved by;

- (a) Protecting all buildings, structures, groups of structures, sites, landscapes and all features which contribute to the special character of the ACA from demolition and non-sympathetic alterations.
- (b) Promote appropriate and sensitive reuse and rehabilitation of buildings and sites within the ACA.
- (c) Ensure new development within or adjacent to an ACA respects the established character of the area and contributes positively in terms of design, scale, setting and material finishes to the ACA.
- (d) Promote high quality architectural design within ACAs.
- (e) Seek the repair and reuse of traditional shopfronts and where appropriate, encourage new shopfronts of a high-quality architectural design.
- (f) Ensure that all new signage, lighting, advertising and utilities to buildings within ACA are designed, constructed, and located in such a manner that they do not detract from the character of the ACA.
- (g) Protect and enhance the quality of open spaces within ACAs and ensure the protection and where necessary reuse of street furniture and use of appropriate materials during the course of public infrastructure schemes within ACAs.
- (h) Prohibit development proposals, either in whole or in part for the demolition of a structure within an Architectural Conservation Area that contributes to the special character of the area.
- (i) Protect structures in ACAs from non-sympathetic alterations and encourage appropriate infill developments.
- (j) Works materially affecting the character of a protected structure or the exterior of a building/structure within an ACA will require planning permission;
- (k) Any works carried out to a protected structure or the exterior of a building/structure within an ACA shall be in accordance with best conservation practice and use sustainable and appropriate materials.
- (l) Ensure that any development, modifications, alterations, or extensions materially affecting the character of a protected structure, or a structure adjoining a protected structure, or a structure within or adjacent to an Architectural Conservation Area (ACA), is sited and designed appropriately and is not detrimental to the character or setting of the protected structure or of the ACA.

### AH 5 Maintenance and Re-use of existing Building Stock

Promote the maintenance and appropriate re-use of the existing stock of buildings with architectural merit as a more sustainable option to their demolition and redevelopment.

### AH 6 Vernacular Architecture

Recognise the importance of the contribution of vernacular architecture to the character of a place and ensure the protection, retention and appropriate revitalisation and reuse of the vernacular built heritage including structures that contribute to landscape and townscape character and resist the demolition of these structures.

### AH 7 Local Place Names

Protect local place names as an important part of the cultural heritage and unique character of an area. Support the use of appropriate names for new developments that reflect the character and heritage of the area and that contribute to the local distinctiveness of a place.

### AH 8 Energy Efficiency and Traditionally Built Structures

Ensure that measures to upgrade the energy efficiency of protected structures and traditionally built historic structures are sensitive to traditional construction methods, employ best practice and use appropriate materials and methods that will not have a detrimental impact on the material, functioning or character of the building.

### AH 9 Local Landscape and Place Assessment

To support proposals from local communities including Tidy Town Committees, Chambers of Commerce and residents' groups in analysing the character of their place and promoting its regeneration for their own use and enjoyment and that of visitors to the area.

### AH 10 Designed Landscapes

Protect the surviving historic designed landscapes in the County and promote the conservation of their essential character, both built and natural. Consider protection of the designed landscape by inclusion in an Architectural Conservation Area. Development proposals in designed landscape shall be accompanied by an appraisal of the contributing elements and an impact assessment.

### AH 11 Custodianship

Promote an inter-disciplinary approach demonstrating best practice with regard to the custodianship of protected structures, recorded monuments and elements of built heritage.

### AH 12 Placemaking for Towns and villages

Promote the value of placemaking in cooperation with communities in their towns, villages and local areas.

### AH 13 Traditional Building Skills

Support and promote traditional building skills, training and awareness of the use of appropriate materials and skills within the Local Authority, community groups, owners and occupiers of traditionally built structures.

### AH 14 Design and Landscaping in New Buildings

Encourage new buildings that foster an innovative approach to design and acknowledges the diversity of suitable design solutions in appropriate locations while promoting the added economic, amenity and environmental value of good design.

#### 13.1.4.4.3 **Cultural Heritage**

The CDP also outlines policy objectives in relation to cultural heritage.

##### CUH 1 Cultural heritage

Protect and promote the cultural heritage assets and the intangible cultural heritage assets of County Galway as important social and economic assets.

##### CUH 2 Special Places of Historic Interest

To protect and promote where possible special places of historical interest.

##### CUH 3 Placenames/Naming of New Developments

Promote and preserve local place names, local heritage and the Irish language by ensuring the use of local place names or geographical or cultural names which reflect the history and landscape of their settings in the naming of new residential and other developments. All names will be in the Irish language only. The naming and numbering schemes including associated signage must be submitted to the Planning Authority prior to the commencement of a new development.

##### CUH 4 The Gaeltacht and Linguistic Heritage

(a) To protect the linguistic and cultural heritage of the Gaeltacht and to promote Irish as a community language. To promote and facilitate the sustainable development of An Ghaeltacht and Island communities in County Galway.

(b) To support organisations involved in the continued promotion and preservation of the Irish language and culture. To work in a positive and encouraging way to create and maintain a bilingual environment in the County, and to ensure the availability of opportunities for the use of spoken and written Irish.

##### CUH 5 Library and Archives

(a) To facilitate the development and implementation of Galway Library Development Programme 2016-2021 or subsequent programme and support the development and promotion of the library network in the county.

(b) Galway County Council shall support the provision of a purpose-built repository, meeting international archival standards, to house, and ensure the preservation, of this important heritage resource.

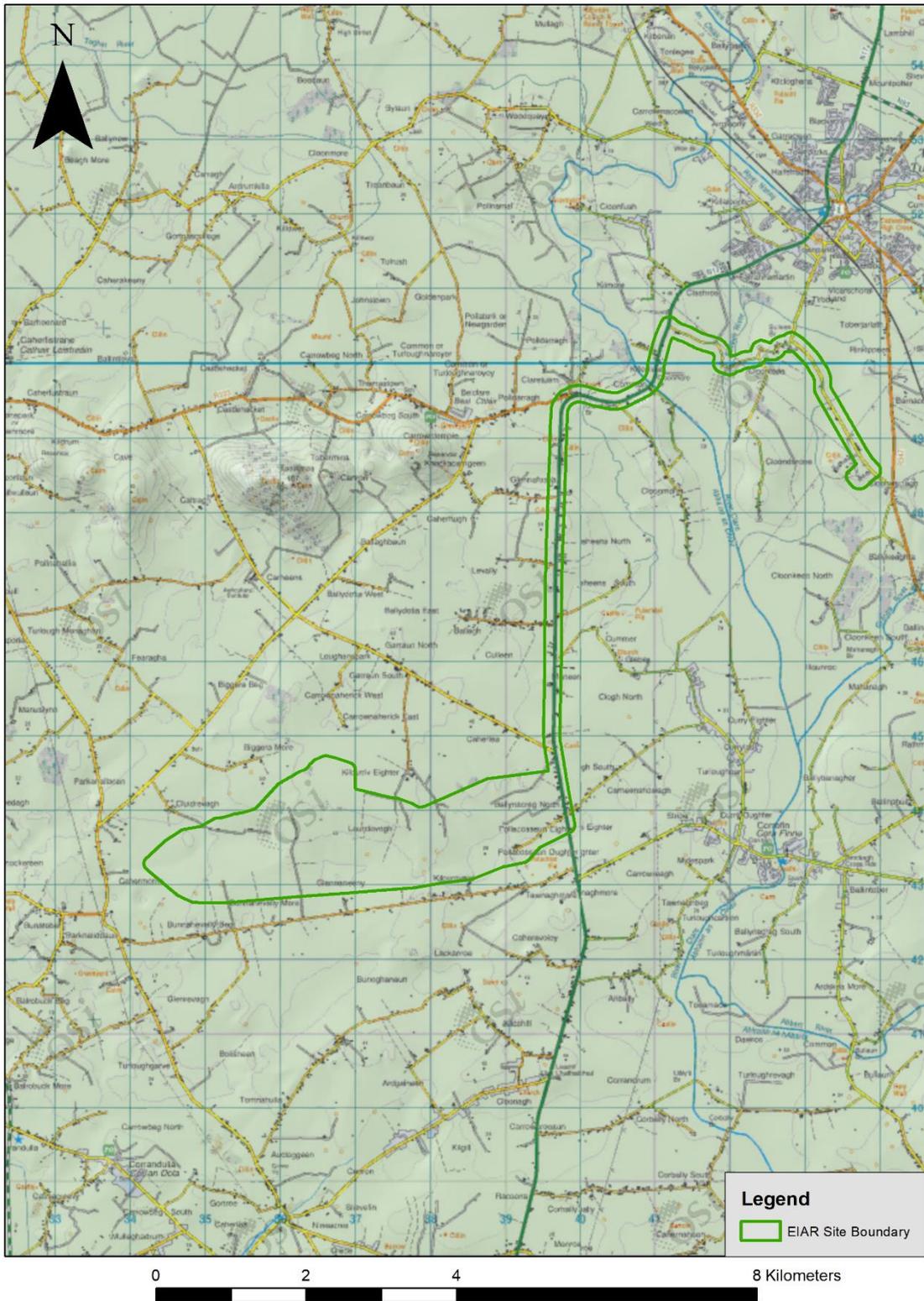


Figure 13-1: Site location map.

## 13.1.5 Statutory Consultations

### 13.1.5.1 Galway County Council

No scoping response relating to archaeology, architectural or cultural heritage was received from Galway County Council.

### 13.1.5.2 Department of Housing Local Government and Heritage

A scoping request was issued to the DAU of the DHLGH; however, no archaeology, architectural or cultural heritage related responses were received from the National Monuments Services /Development Applications Unit of the Department of Housing, Local Government and Heritage (DHLGH).

### 13.1.5.3 Heritage Council

A scoping request was issued to the Heritage Council which was acknowledged, however, no response was received to date.

### 13.1.5.4 An Taisce

A scoping request was issued to An Taisce which was acknowledged, however, no response was received to date.

## 13.2 Assessment Methodology

The assessment of the archaeology, architecture and cultural heritage of the Proposed Project included geographic information system (GIS) mapping, desk-based research and field inspection.

### 13.2.1 Geographical Information Systems (GIS)

GIS is a computer database which captures, stores, analyses, manages and presents data that is linked to location. GIS is geographic information systems which includes mapping software and its application with remote sensing, land surveying, aerial photography, mathematics, photogrammetry, geography and tools that can be implemented with GIS software. GIS was used to manage the datasets relevant to the archaeological and architectural heritage assessment and for the creation of all the maps in this section of the report. This involved the overlaying of the relevant archaeological and architectural datasets on georeferenced aerial photographs and road maps (i.e. Economic and Social Research Institute (ESRI)), where available. The integration of this spatial information allows for the accurate measurement of distances of a proposed development from archaeological and cultural heritage sites and the extraction of information on 'monument types' from the datasets. Areas of archaeological or architectural sensitivity may then be highlighted in order to mitigate the potential negative effects of a development on archaeological, architectural and cultural heritage.

### 13.2.2 Desktop Assessment

The following sources were consulted as part of the desktop assessment for the Proposed Project:

- The Record of Monuments and Places (RMP)
- The Sites and Monuments Record (SMR)
- National Monuments in State Care County Galway
- The Topographical Files of the National Museum of Ireland

- First edition Ordnance Survey maps (OSI)
- Second edition Ordnance Survey maps (OSI)
- Aerial photographs (copyright of Ordnance Survey Ireland (OSI))
- Excavations Database
- National Inventory of Architectural Heritage (NIAH)
- Record of Protected Structures
- Galway County Development Plan 2022-2028

Each of these are discussed in the following sections.

### 13.2.2.1 **Record of Monuments and Places, Sites and Monuments Record and National Monuments**

A primary cartographic source and base-line data for the assessment was the consultation of the Sites and Monuments Record (SMR) and Record of Monuments and Places (RMP) for County Galway. All known recorded archaeological monuments are indicated on 6-inch Ordnance Survey (OS) maps and are listed in these records. The SMR/RMP is not a complete record of all monuments as newly discovered sites may not appear in the list or accompanying maps. In conjunction with the consultation of the SMR and RMP the electronic database of recorded monuments and SMRs which may be accessed at [www.heritagedata.maps.arcgis.com](http://www.heritagedata.maps.arcgis.com) was also consulted.

A review of all National Monuments in State Care and those subject to Preservation Orders in County Galway was also undertaken as part of the assessment.

### 13.2.2.2 **Cartographic Sources and Aerial Photography**

The 1st (1840s) and 2nd (1900s) edition OS maps for the area were consulted, where available, as was OSI aerial photography.

### 13.2.2.3 **Topographical Files - National Museum of Ireland**

Details relating to finds of archaeological material and monuments in numerous townlands in the country are contained in the topographical files held in the National Museum of Ireland. In order to establish if any new or previously unrecorded finds had been recovered from the Site these files, as available on Heritage Maps ([www.heritagemaps.ie](http://www.heritagemaps.ie)), were consulted for each townland within and immediately adjacent to the Site.

### 13.2.2.4 **Archaeological Inventory Series**

Further information on archaeological sites may be obtained in the published County Archaeological Inventory series prepared by the Department of Housing, Local Government and Heritage (DHLGH). The archaeological inventories present summarised information on sites listed in the SMR/RMP and include detail such as the size and location of particular monuments, as well as any associated folklore or local information pertaining to each site. The inventories, however, do not account for all sites or items of cultural heritage interest which are undiscovered at the time of their publication. Many sites have been discovered since the publication of the Inventory Series, which have now been added to the Sites and Monuments Record.

### 13.2.2.5 **Record of Protected Structures**

The current County Development Plan was consulted for the schedule of buildings (Record of Protected Structures) and items of cultural, historical or archaeological interest which may be affected by the Proposed Project. The development plan also outlines policies and objectives relating to the protection of the archaeological, historical and architectural heritage landscape of County Galway. The

dataset for the Galway Record of Protected Structures was added to the base mapping for the Proposed Project in order to accurately assess any potential impacts on such structures.

### 13.2.2.6 Excavations Database

The Excavations Database is an annual account of all excavations carried out under license. The database is available online at [www.excavations.ie](http://www.excavations.ie) and includes excavations from 1985 to 2023. This database was consulted as part of the desktop research for this assessment to establish if any archaeological excavations had been carried out within or near to the Site.

### 13.2.2.7 National Inventory of Architectural Heritage (NIAH)

This source lists some of the architecturally significant buildings and items of cultural heritage and is compiled on a county-by-county basis by the Department of Housing, Local Government and Heritage (DHLGH). The NIAH database was consulted for all townlands within and adjacent to the Site. The NIAH survey has been published and the digital dataset was downloaded on to the base mapping for the Proposed Project ([www.buildingsofireland.ie](http://www.buildingsofireland.ie)). The National Inventory of Architectural Heritage (NIAH) is a state initiative under the administration of the Department of Housing, Local Government and Heritage (DHLGH) and established on a statutory basis under the provisions of the Architectural Heritage (National Inventory) and Historic Monuments (Miscellaneous Provisions) Act 1999.

The purpose of the NIAH is to identify, record, and evaluate the post-1700 architectural heritage of Ireland, uniformly and consistently as an aid in the protection and conservation of the built heritage. NIAH surveys provide the basis for the recommendations of the Minister for the Department of Culture, Heritage and the Gaeltacht to the planning authorities for the inclusion of particular structures in their Record of Protected Structures (RPS).

### 13.2.2.8 Previous Assessments

No previous assessments were carried out on the Site.

## 13.2.3 Field Inspection

The Proposed Project site was subject to a walk-over survey and windscreen survey in January 2023. A photographic and descriptive record was made of the Site and any features of interest therein. The photographic record is included as Appendix 13-1 of this EIAR. All SMR sites within the EIAR Site Boundary were inspected as well as any other relevant cultural heritage features.

### 13.2.3.1 Limitations Associated with Fieldwork

No limitations were encountered during fieldwork and all areas were accessed.

## 13.2.4 Assessment of Likely Significant Effects

The likely effects on the existing archaeological, architectural and cultural heritage environment are assessed using the criteria as set out in the *Guidelines on the Information to be Contained in Environmental Impact Assessment Reports* (EPA, May 2022) and described in section 1.7 of Chapter 1. The following terminology is used when describing the likely effects of the Proposed Project from a Cultural Heritage perspective.

### 13.2.4.1 Types of Impact

- Direct impacts arise where an archaeological heritage feature or site is physically located within the footprint of the development whereby the removal of part, or all of the feature or site is thus required.
- Indirect impacts may arise as a result of subsurface works undertaken outside the footprint of the development, secondary environmental change such as a reduction in water levels and visual impacts.
- Cumulative Impacts arise when the addition of many impacts create a larger, more significant impact.
- Residual Impacts are the degree of environmental changes that will occur after the proposed mitigation measures have been implemented.

#### 13.2.4.1.1 Magnitude of Effects (Significance)

- Profound: Applies where mitigation would be unlikely to remove adverse effects. Reserved for adverse, negative effects only. These effects arise where an archaeological site is completely and irreversibly destroyed.
- Very Significant: An effect which by its character, magnitude, duration or intensity significantly alters most of the sensitive aspect of the environment.
- Significant: An effect which by its character, magnitude, duration or intensity alters a sensitive aspect of the environment. An effect like this would be where part of a site would be permanently impacted upon, leading to a loss of character, integrity and data about an archaeological site.
- Moderate: A moderate effect arises where a change to an archaeological site is proposed which though noticeable, is not such that the integrity of the site is compromised and which is reversible. This arises where an archaeological site can be incorporated into a modern day development without damage and that all procedures used to facilitate this are reversible.
- Slight: An effect which causes changes in the character of the environment which are not high or very high and do not directly impact or affect an archaeological site.
- Not Significant: An effect which causes noticeable changes in the character of the environment but without significant consequences.
- Imperceptible: An effect on an archaeological site capable of measurement but without noticeable consequences.

### 13.2.5 Methodology for the assessment of impacts on visual setting (indirect effects)

A standardised approach was utilised for the assessment of impacts of visual setting (indirect effects) according to types of monuments and cultural heritage assets which may have varying degrees of sensitivity. This assessment does not include visits to each and every site as this is considered to be beyond the scope of this EIAR as they are mainly located on private lands to which the public have no access. The assessment of impacts on visual setting was undertaken using both the Zone of Theoretical Visibility (ZTV) map in the Landscape and Visual Impact Assessment (LVIA), as presented in Chapter 14 of this EIAR, and also photomontages / Photowires from specific cultural heritage assets. The analysis used in the assessment of potential impacts on the visual setting of cultural heritage assets in the wider landscape of 10km and 20km considers the effects of the proposed turbines only. The tall, vertical nature of the proposed turbines make them the most prominent elements of the Proposed Project from a visual perspective and have the most potential to give rise to significant, indirect, effects. The proposed on-site substation is also considered in terms of potential visual effects.

Other components of the Proposed Project i.e. other components of the Proposed Wind Farm and the Proposed Grid Connection are not deemed to be as visually prominent as the proposed turbines and the proposed substation.

While direct physical effects to a site or monument can easily be assessed in quantitative terms, the assessment of effects on setting can be subjective and as such is a matter of qualitative, professional judgement and experience. The distances below used in the assessment of effects on setting are regarded as appropriate and are based on professional judgement.

Table 13-1: Distance from the proposed turbines to cultural heritage assets considered according to sensitivity

Cultural Heritage Asset	Distance Considered from the Proposed Turbines
UNESCO World Heritage Sites (including tentative sites)	20km
National Monuments (State Ownership and Preservation Order Sites)	10km
Sites and Monuments and Recorded Monuments, RPS	5km
NIAH structures	5km
Undesignated sites, if relevant	500m

The potential visual effects of the turbines on the setting of cultural heritage assets are graded according to two criteria (Table 13-2):

- Distance to the nearest turbine:** Each increment of distance is numbered from 1-5 in severity with 1 being the lowest in severity (i.e. 4-5km from the nearest turbine and 5 being the most severe (0-1km from the nearest turbine)).
- Number of turbines visible on ZTV.** Each increment is also numbered from 1-4 with 1 being the least severe (i.e. 1-3 turbines visible) and 3 being the most severe (7-8 turbines visible).

The number values are then multiplied to arrive at a potential effect (from Imperceptible to Moderate). For the purposes of the Proposed Wind Farm there are no Significant effects. Very Significant and Profound are reserved for adverse direct effects which result in the total removal of cultural heritage assets which does not occur from visual impacts. The following table is used to ascertain the potential visual effect not assuming any vegetation, existing buildings, and any other screening in the landscape.

Table 13-2: Grading of Potential visual effects according to Distance and No. of Turbines visible from Cultural Heritage Assets

No. of Turbines Visible (ZTV)	1-3 (1)	4-6 (2)	7-8 (3)
Distance of asset to turbine			
4-5km (1)	1	2	3
3-4km (2)	2	4	6
2-3km (3)	3	6	9
1-2km (4)	4	8	12
0-1km (5)	5	10	15
Imperceptible (0)	Not Significant (1-5)	Slight (6-10)	Moderate (11-15)

## 13.3 Existing Environment

### 13.3.1 Results of Field Inspection

One potential previously unrecorded archaeological monument was noted within the Proposed Wind Farm site during the walk-over survey. It comprises a possible enclosure located c. 390m east of T8 and c. 60m east of the proposed new road to T8. The possible monument is not indicated on the available historic mapping (see Section 13.3.3.4 below) A photographic record of the Proposed Project is presented in Appendix 13-1.

### 13.3.2 Archaeological, Architectural and Cultural Heritage

Archaeological heritage includes UNESCO World Heritage Sites and those on the tentative list, National Monuments in State Care and those which are subject to a preservation order, sites listed in the RMP/SMR and newly discovered archaeological sites. Each of these are addressed in the following sections. Sub-surface archaeology is also addressed in the assessment.

A number of documentary and cartographic sources (as listed in Section 13.2.2 above) were utilised in order to ascertain the potential for the presence of architectural /cultural heritage features on or within the area of the Proposed Project. Section 13.3.3 addresses the Proposed Wind Farm, Section 13.3.4 address the Proposed Grid Connection and Section 13.3.5 addresses the proposed Turbine Delivery Route. Cultural heritage includes items such as buildings, farmhouses, gates, bridges, piers, and stone field boundaries.

### 13.3.3 Proposed Wind Farm

#### 13.3.3.1 UNESCO World Heritage Sites and those on Tentative List

No UNESCO World Heritage Sites (WHS) or those on the Tentative list are located within 20km of the nearest proposed turbine. The nearest WHS (Tentative list) comprises the royal site of Rathcroghan, Co. Roscommon which is situated c. 58km to the north-east of the proposed turbines.

#### 13.3.3.2 National Monuments

National Monuments are those recorded monuments which are in the ownership / guardianship of the Minister for Housing, Local Government and Heritage. They are frequently referred to as being in 'State Care'. National Monuments also include those which are subject to a Preservation Order. No National Monuments or those subject to a Preservation Order are located within the Proposed Wind Farm site. Three National Monuments in State Care are located within 10km of the nearest proposed turbine and are listed in Table 13.3 and shown on Figure 13-2. Five monuments subject to a Preservation Order are located within 10km of the nearest proposed turbine and are also listed in Table 13.3. The monuments are listed and described below.

Table 13.3: National Monuments and those subject to a preservation order within 10km of the nearest proposed turbine

Nat. Mon. No.	SMR NO.	ITM E	ITM N	CLASS	TOWNLAND	TURBINE ID	DISTANCE TO NEAREST TURBINE (m)
369	GA057-067001-, GA057-067003-, GA057-067004-	538900	741718	House & Bawn	Caheravoley, Kilcahill	T08	2181
49	GA069-001—	528698	738104	Early Medieval Ecclesiastical Site	Annaghdown	T01	7846
505	GA029-179004-	543267	751865	High Cross	Townparks 2nd Division	T08	9477
3/1991	GA056-041; GA056-041001-	534385	742775	Ringfort with Souterrain	CAHERMORRIS	T01	491
2/1991	GA056-042—	534102	742527	Ringfort	CAHERMORRIS	T01	866
1/1991	GA056-043001-; GA056-043002-	534164	742469	Enclosure and Castle	CAHERMORRIS	T01	867
206/1955	GA042-061; GA042-061001-	534239	747930	Ringfort and souterrain	CALTRAGH (Killower ED)	T04	4250



Nat. Mon. No.	SMR NO.	ITM E	ITM N	CLASS	TOWNLAND	TURBINE ID	DISTANCE TO NEAREST TURBINE (m)
2/2002	GA070-089; GA070-089001-; GA070-091—	541649	736478	Medieval Settlement Site	LACKAGH BEG, LACKAGH MORE	T08	8068

### 13.3.3.2.1 National Monument 369 House, building and Bawn

The National Monument (No. 369) at Cahervoley comprises a large rectangular bawn within which are the foundations of a house (GA057-067003) and an outbuilding (GA057-067004). The description of the bawn as provided on the Historic Environment Viewer (HEV) is provided below. The monuments at Cahervoley are located c. 2.1km to the south-east of the nearest proposed turbine T8.

#### **GA057-067001- : Bawn : CAHERAVOLEY**

*Description: In undulating scrubland and rock outcrop. This Nat. Mon., a fairly well-preserved large rectangular bawn (ENE-WSW 67m, ESE-WNW 48.3m, H 1.8m) is built of undressed mortared stone. A collapsed entrance (With c. 1.1m) lies at ENE. There are two opposing circular turrets (D c. 2.5m) in E and W angles; that at E is best preserved and is two storeys high; five gun loops survive on both floors. A garderobe chute is visible beside it in SE wall. Five gun loops are also evident in W turret. Centrally placed within the interior are the remains of a rectangular house (GA057-067003: NNE-SSE; L 12.2m, With 5.9m ext.), and near N corner the grassed-over foundation lines of associated rectangular outbuildings (GA057-067004). The monument is surrounded by an extensive field system (GA057-067002). (Killanin and Duignan 1967, 162; Harbison 1975, 88) The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010 This monument was taken into Ownership under the National Monuments Acts 1930 to 2014 - National Monument 369.*

The ZTV indicates that the bawn is located in an area where all eight of the proposed turbines will theoretically be visible (Figure 13-3).

### 13.3.3.2.2 National Monument 49 Early Medieval Ecclesiastical Site

The early medieval ecclesiastical complex at Annaghdown townland is located c. 7.8km to the south-west of the nearest proposed turbine, T1. It contains multiple monuments including two churches, a nunnery, graveyard and an ecclesiastical enclosure and also an Augustinian religious house. Both churches and the Augustinian religious house have National Monument status and are described on the HEV as follows:

#### **GA069-001007- : Church : EANACH DHÚIN**

*Description: Situated 10m S of the 'Nunnery' (GA069-001005). A poorly preserved and much-conserved rectangular building; now a Nat. Mon. According to Harbison (1975, 81), it represents 'the foundations of an early Church which is the oldest on the site, and may be of 11th or 12th century date'. Standing remains consist of a featureless rectangular structure (E-W; L 10m, With 3.55m) with two doorways: (a) centrally placed in W gable, and (b) near W end of S wall. The latter leads to a featureless rectangular annexe (L 7.35m, With 2.75m) with a rectangular tower-like feature (E-W; L 1.55, With 2.75m) at W end; possibly a latrine. This annexe is probably a later addition as suggested by Harbison (ibid.), as it is not bonded into the main wall of the church. Within it there is a medieval graveslab (GA069-001008). Two cross-slabs (GA069-001009- and GA069-001010-) are also associated. The monument was taken into Ownership under the National Monuments Acts 1930 to 2014 - National Monument 49. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). In certain instances the entries have been revised and updated in the light of recent research. Updated by: Olive Alcock Date of revised upload: 18 June 2018*

#### **GA069-001011- : Church : EANACH DHÚIN**

*Description: At S end of the modern graveyard, 75m SSE of the 'Nunnery' (GA069-001005). Named variously in older accounts as the 'Protestant' or 'Church of England' church (Cochrane 1901, 320; Fahey 1904, 134), indicating that it was in use until the 18th C. It is now a conserved Nat. Mon. comprising an intact rectangular church (E-W; L 15.8m, With 6.05m) possibly of the medieval date, though the heavy rendering makes dating difficult: an enigmatic vertical line is visible in the masonry of*

*N wall towards E end. There is a pointed arch doorway in N wall, towards W end, for which Harbison (1975, 81) suggests a date 'about 1200'. The E gable incorporates a magnificent late Romanesque window (Cochrane 1901, 319-20; Leask 1977, 157-9). Opinions as to the original location of these two elements differ; Killanin and Duignan (1967, 56-7) suggest that the present structure 'may well occupy the site of an earlier church', but the view more commonly advocated is that the window came from the abbey (GA069-001013-). There are two pointed arch windows in S wall, a robbed window in N wall and a bell tower on the apex of W gable, and of which probably date to the 17th C or later. Within the interior are numerous cut-stone fragments, some of which may be 12th-13th C in date. (O'Flanagan 1927, Vol. 1, 268; Killanin 1951, 117) The monument was taken into Ownership under the National Monuments Acts 1930 to 2014 - National Monument 49. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010*

**GA069-001013 : Religious house - Augustinian canons : EANACH DHÚIN**

*Description: On the lakeshore 150m SSW of the 'Nunnery' (GA069-001005-). Founded sometime after 1195 when it was granted to the Canons Regular of St Augustine (Gwynn and Hadcock 1970, 156-7). A Nat. Mon., the present remains consist of a restored nave (E-W; L 26.5m) chancel (L 5.6m, With 4.5m) church 'of at least three periods' (Killanin and Duignan 1967, 57). The earliest section is the chancel which is of Transitional-date. It contains two finely cut opposing round-headed windows in its side-walls, the S example having Romanesque decoration on its arch terminals. Its E gable contains a robbed window which some authorities believe to be the original location of the Romanesque window presently in the 'cathedral' (GA069-001011-). Later architectural features include a pointed arch doorway in N wall of nave, to W of which is a trefoil-headed window, and a rectangular window in W gable. The cloister and domestic buildings lie to S but only the foundations of the former and fragmentary remains of the latter survive. The E range was two storeys high with the ground floor divided into five rooms, two of which have doorways leading to the cloister. The first floor is lit by series of opposing rectangular windows. The S range comprises a large featureless structure, in SW corner of which, set into a recess, are fragments of a fine Romanesque chancel arch. A single fortress-like wall with a number of small rectangular windows is all that survives of W range. A cross-slab is associated (Higgins 1987, 336, no. 62). The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010*

The ZTV indicates that the ecclesiastical complex is located in an area in which all of the proposed turbines will theoretically be visible.

### 13.3.3.2.3 National Monument 505 Tuam High Cross

The high cross at Tuam (Nat. Mon. no. 505) is located c. 9.4km to the north-east of the nearest proposed turbine, T8. The ZTV suggests theoretical visibility of four-six of the proposed turbines from this area. It should be noted, however, that the high cross is housed in St Mary's Cathedral. The cross is described on the HEV as follows:

**GA029-179004 : Cross - High cross : TOWNPARKS (2nd Division - Tuam)**

*Description: In St Mary's (C of I) Cathedral (GA029-179002-), in Tuam town (GA029-199-). According to OS Letters (O'Flanagan 1927, Vol. 1, 48-9), it 'was found sunk under the earth, where the Communion [sic] table is now, inside the church', i.e., e end of the 'Synod Hall'. It consists of the shaft of a 12th-C sandstone cross (H 1.45m, L 0.45m, With 0.25m), the edges of which are defined by rolled and cavetto mouldings. The broad faces are decorated in animal interlace and fretwork patterns, while the narrow sides bear two inscriptions, as follows: (a) 'Prayer for the King, Turdelbuch O'Conor [/] Prayer for the wright Gill Christ O'Toole', and (b) 'Prayer for the successor of Iarlath, for Aed O Hossin who had the cross made' (Harbison 1992, 177, no. 218) The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010*



Plate 13-1: Tuam high cross National Monument No. 505 (photo courtesy of [www.visitgalway.ie](http://www.visitgalway.ie)).

#### 13.3.3.2.4 Preservation Order 3/1991 Ringfort and Souterrain

This ringfort and souterrain subject to a Preservation Order (3/1991) are located in the townland of Cahermorris c. 491m to the south-west of the nearest proposed turbine, T1. They are described on the HEV as follows:

**GA056-041— : Ringfort - cashel : CAHERMORRIS**

*Description: In undulating grassland. This poorly preserved subcircular cashel (N-S 30m) is defined by a drystone wall that is reduced to a rubble spread (With 2-2.5m; H 0.2-0.3m). The interior is overgrown with trees. In the NW quadrant there is a subrectangular depression (L 6.5m, With 3.8m) running NW-SE. On its E side, definite traces of stone-facing are visible. These remains may represent a possible souterrain (GA056-041001-). (Westropp 1919, 183; Killanin and Duignan 1967, 304) The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Updated by: Olive Alcock Date of revised upload: 26 November 2018 This monument is subject to a preservation order made under the National Monuments Acts 1930 to 2014 (PO no. 3/1991).*

**GA056-041001- : Souterrain : CAHERMORRIS**

*Description: Within the NW quadrant of the cashel (GA056-041—) there is a subrectangular depression (L 6.5m, With 3.8m) running NW-SE. On its E side, definite traces of stone-facing are visible. These remains may mark the site of a souterrain (GA056-041001-). This monument is subject to a preservation*

order made under the National Monuments Acts 1930 to 2014 (PO no. 3/1991). Compiled by: Olive Alcock Date of upload: 26 November 2018

The monuments at Cahermorris are located in an area where the ZTV shows theoretical visibility of all of the proposed turbines (Figure 13-3).

### 13.3.3.2.5 Preservation Order No. 1/1991 and 2/1991 Ringfort, enclosure and Castle

A ringfort, enclosure and a castle are located c. 866m south-west of the nearest proposed turbine, T1 in the townland of Cahermorris. They are described on the HEV as follows:

#### **GA056-042— : Ringfort - cashel : CAHERMORRIS**

*Description: Some 25m NW of a large enclosure (GA056-043001-). When inspected in September 1983 this poorly preserved circular cashel (D 35m) was defined by a collapsed drystone wall (With 1.8m; H 0.3-0.4m) which was obscured by overgrowth. A field wall cut through the monument at NW and SE. On re-inspection in May 1991 it was noted that as a result of land clearance in the area field-clearance rubble was dumped against the external face of the E half of the cashel wall. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). In certain instances the entries have been revised and updated in the light of recent research. Updated by: Olive Alcock Date of revised upload: 14 August 2018 This monument is subject to a preservation order made under the National Monuments Acts 1930 to 2014 (PO no. 2/1991).*

#### **GA056-043001- : Enclosure - large enclosure : CAHERMORRIS**

*Description: In rough scrub and grassland. When visited in September 1983, this monument consisted of a large roughly D-shaped enclosure (N-S 85m, E-W 80m) defined by a well-preserved drystone wall (With 2.9m, H 1.7m max.). A sketch plan by Westropp (1919, 168) shows a gap at NNE, probably the same point at which he noted 'a slight trace of a mortar-built gateway' (ibid., 182-3): no definite surface traces of either were found. The monument was almost completely levelled in April/May 1991 as a result of land clearance. A castle (GA056-042—) stood in the interior and a ringfort (GA056-043002-) lies 25m to NW. (Anon. 1919, 165) The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010 This monument is subject to a preservation order made under the National Monuments Acts 1930 to 2014 (PO no. 1/1991).*

#### **GA056-043002- : Castle - unclassified : CAHERMORRIS**

*Description: Within a large enclosure (GA056-043001-). According to Nolan (1901a, 46), it was in existence in 1570 when it 'belonged to Burke of Castle Hackett': in 1574 it is listed as being in the possession of 'Mc Walters sept' (ibid. 1901b, 118). Named but not indicated on 1st ed. of OS 6-inch map: on 3rd ed. (1920), its site is marked in E sector of the enclosure. No visible surface trace survives in this area but there is a low circular stony mound (D 8m) in N sector in which large chunks of masonry are visible. Within it is a roughly rectangular hollow (N-S 3.5m, E-W 1.5m) in which faint traces of wall-faces are visible. Though it lies inside the line of the enclosure wall, this may be synonymous with the 'slight trace of a mortar-built gateway' mentioned by Westropp (1919, 182-3, 168). The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010 This monument is subject to a preservation order made under the National Monuments Acts 1930 to 2014 (PO no. 1/1991).*

The ZTV also demonstrates theoretical visibility of all of the proposed turbines from this location.

### 13.3.3.2.6 Preservation Order No. 206/1955 Ringfort and souterrain

Ringfort and souterrain (PO no. 206/1955) are located c. 4.2km north-west of the nearest proposed turbine, T4. They are described on the HEV as follows:

**GA042-061— : Ringfort - rath : CALTRAGH (Killower ED)**

*Description: On a hill in grassland. Poorly preserved circular rath (D 28m) defined by two banks (inner bank Wth 2.5m; int. H 0.2m; ext. H 0.35m; outer bank Wth 3m; int. H 0.6m) and an intervening fosse (Wth 1m) best preserved at S. Elsewhere the banks are barely discernible and the fosse is infilled. There is a souterrain (GA042-061001-) within the interior. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). In certain instances the entries have been revised and updated in the light of recent research. Updated by: Olive Alcock Date of revised upload: 26 November 2018 This monument is subject to a preservation order made under the National Monuments Acts 1930 to 2014 (PO no. 206/1955).*

**GA042-061001- : Souterrain : CALTRAGH (Killower ED)**

*Description: Within a ringfort (GA042-061—). Well-preserved drystone-built souterrain, roughly Z-shaped in plan, consisting of three chambers connected by two creeps. Present access via modern opening at SW end of 1st chamber (L c. 8m, Wth 1.9m at entrance) which runs SW-NE. A creep (L 1.4m, Wth 1.4m max.) leading N, at NE end, accesses 2nd chamber (L 8.95m) which runs roughly N-S. The 2nd creep (L 0.63m Wth 0.61m), at NE end of this chamber, leads to 3rd chamber (L 9.2m) which runs E-W. A plan of the souterrain drawn up by Costello (1903, 9) indicates that a possible 4th chamber extended off SW end of 1st chamber, in a N-S direction. It is described (ibid.) as being 'much filled up and only a small part remains open'. All that survives is a dug-out hollow strewn with collapsed stone. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010 This monument is subject to a preservation order made under the National Monuments Acts 1930 to 2014 (PO no. 206/1955).*

The ZTV again demonstrates theoretical visibility of all of the proposed turbines from the area of the ringfort and souterrain.

### 13.3.3.2.7 Preservation Order No. 2/2002 Church and graveyard

The church and graveyard at Lackagh Beg are located c. 8km south-east of the nearest proposed turbine, T8. They are described on the HEV as follows:

**GA070-089— : Church : LACKAGH BEG**

*Description: On SW bank of the River Clare in undulating farmland; it stands on N boundary of an irregularly shaped graveyard (GA070-089001-) just upstream from 'Lackagh Bridge'. The remains are those of a rectangular medieval parish church (E-W; L 15.4m, Wth 7.1m) in fair condition. Though little survives of E gable, the other walls still stand to full height. There is a pointed arch doorway towards W end of S wall. Traces of a blocked window ope are also visible internally at E end of same wall. A castle (GA070-091—) stands 70m to NE on opposite bank of the river. (O'Flanagan 1927, Vol. 1, 287) The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010 This monument is subject to a preservation order made under the National Monuments Acts 1930 to 2014 (PO no. 2/2002).*

**GA070-089001- : Graveyard : LACKAGH BEG**

*Description: This graveyard, which is still in use, is associated with the church (GA070-089—) located in its NNE sector. On the 1934 edition of the OS 6-inch map it was roughly rectangular in plan (c. 73m N-S; c. 52m E-W) but it has subsequently been extended to the S and W. The earliest graveslab noted on inspection in August 1983 dated to 1882. This monument is subject to a preservation order made under the National Monuments Acts 1930 to 2014 (PO no. 2/2002). Compiled by: Olive Alcock Date of upload: 28 November 2018.*

The ZTV demonstrates theoretical visibility of all proposed turbines from this location.

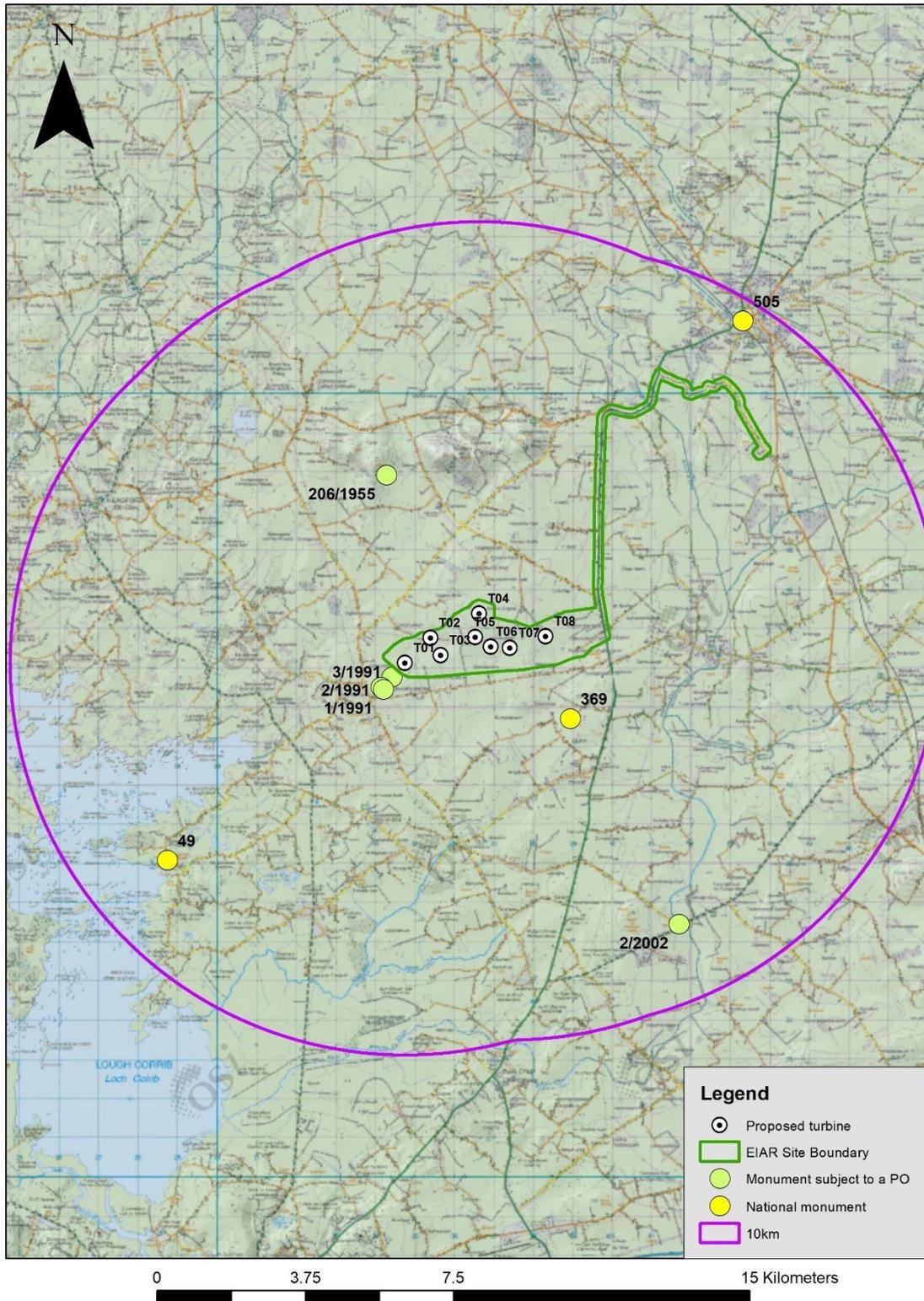


Figure 13-2: National Monuments and those subject to a Preservation Order within 10km of the nearest proposed turbine.

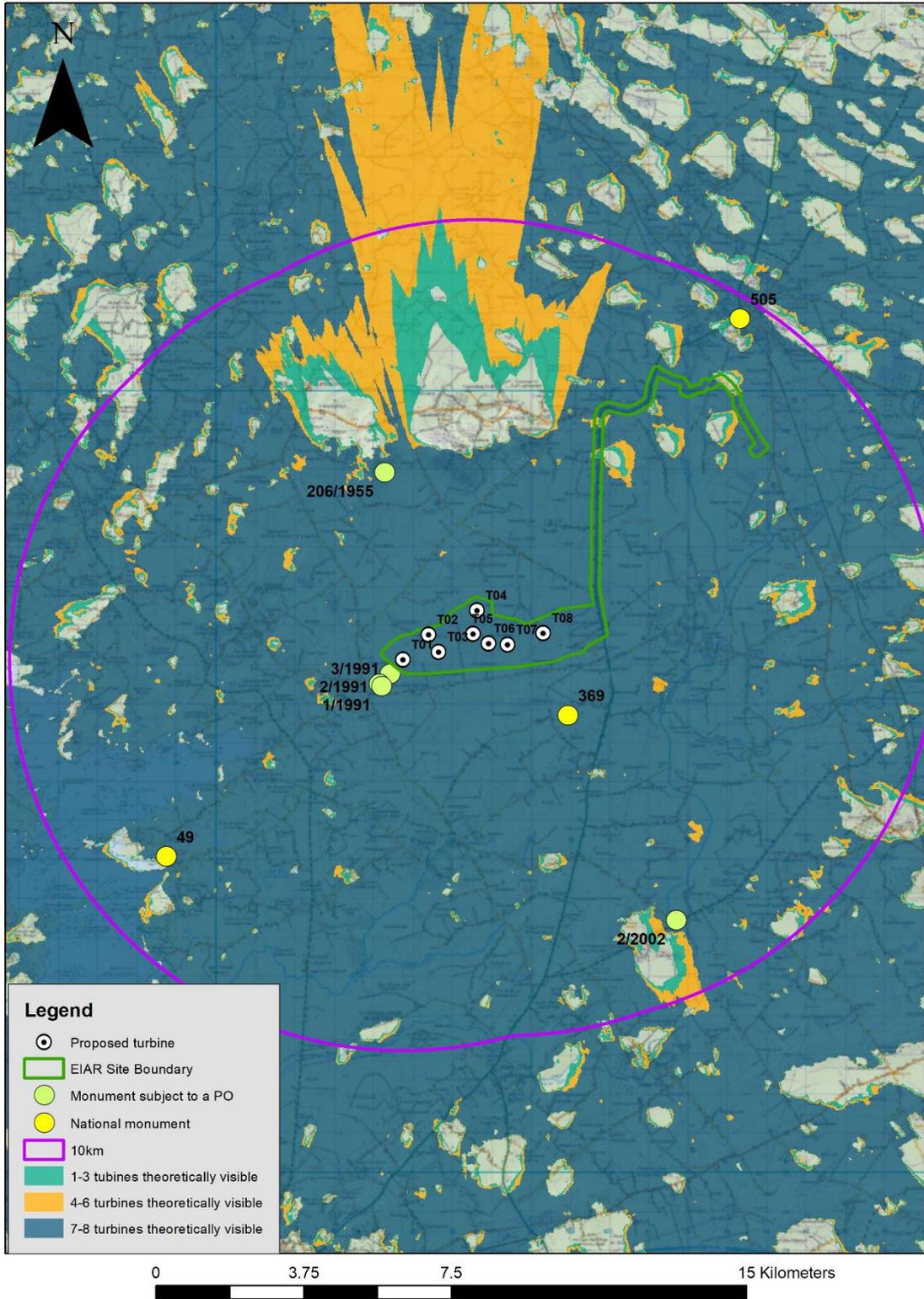


Figure 13-3: National Monuments and those subject to a Preservation Order with ZTV.

### 13.3.3.3 Recorded Monuments within the Proposed Wind Farm site

Twenty recorded monuments are located within the Proposed Wind Farm site. The monuments are listed in

Table 13-4 and shown on **Error! Reference source not found.** below. A description of each monument as provided on the HEV is provided with supplementary information from field survey carried out as part of this assessment where relevant. Impacts and mitigation are addressed below in Section 13.4.

Table 13-4: SMR located within the Proposed Wind Farm site

SMRS	ITM (E)	ITM (N)	Class	Townland	Turbine No.	Distance (m)
GA057-163—	536802	744466	House - indeterminate date	KILCURRIV EIGHTER	T04	215
GA057-132—	537032	743372	Enclosure	LAURCLAVAGH	T06	224
GA056-036—	534843	742913	Enclosure	BUNNAHEVELLY BEG	T01	254
GA057-133—	537125	743441	Ringfort - unclassified	LAURCLAVAGH	T06	255
GA056-039—	535936	743285	Redundant record	BUNNAHEVELLY MORE	T03	315
GA057-164—	537376	743860	Field system	LAURCLAVAGH	T07	344
GA057-129—	538066	744113	Well	KILCURRIV EIGHTER	T08	371
GA057-114—	538042	743489	Ringfort - unclassified	KILCURRIVARD	T08	397
GA056-038—	535085	742945	Enclosure	BUNNAHEVELLY MORE	T01	412
GA057-164001-	537410	743971	Hut site	LAURCLAVAGH	T07	457
GA056-037—	535175	743035	Ringfort - unclassified	BUNNAHEVELLY MORE	T01	467
GA056-088—	536130	744108	Enclosure	LAURCLAVAGH	T05	487

SMRS	ITM (E)	ITM (N)	Class	Townland	Turbine No.	Distance (m)
GA057-118—	537696	743130	Enclosure	KILCURRIVARD	T07	505
GA057-115—	537915	743457	House - indeterminate date	KILCURRIVARD	T08	505
GA057-116—	537875	743378	Ringfort - unclassified	KILCURRIVARD	T07	523
GA057-127—	538678	743455	Redundant record	KILCURRIVARD	T08	533
GA057-117001-	537856	743200	Souterrain	KILCURRIVARD	T07	579
GA057-117—	537871	743206	Ringfort - unclassified	KILCURRIVARD	T07	588
GA057-164002-	537334	744144	Hut site	LAURCLAVAGH	T07	629

### 13.3.3.3.1 **GA057-163---- : House - indeterminate date : KILCURRIV EIGHTER**

*Description: On a patch of flat exposed limestone pavement in grassland. Aerial reconnaissance in November 1987 (ASGAP 384:33) revealed a well-preserved circular area (D c. 15m) defined by a collapsed stone wall. Not visited. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

This monument was visited as part of the walk-over survey carried out for this assessment. No surface trace of any monument was visible at that time and while a large amount of stone was apparent it did not take the form of a circular area as described above. A review of available aerial photography shows that the monument is visible on the 1996-2000 MapGenie Imagery but is not apparent on subsequent versions. The various aerial images also show that ground clearance or other works appear to have taken place in the area around the early to mid-2000s.



Plate 13-2: Area of recorded monument GA057-163— House - indeterminate.

#### 13.3.3.3.2

### **GA057-132---- : Enclosure : LAURCLAVAGH**

*Description: Some 100m SW of a ringfort (GA057-134—). Marked on 3rd ed. of OS 6-inch map as a circular hachured hollow (D c. 35m). Aerial reconnaissance in November 1987 (ASGAP 384: 30, 32) shows a circular enclosure at this location. It appears to be defined by a collapsed stone wall. Not visited. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

This monument was visited as part of the field survey carried out for this assessment. It comprises an upstanding monument defined by a low stone bank on which trees and scrub were growing.



Plate 13-3: Enclosure GA057-132— looking NW.

### 13.3.3.3.3 **GA057-133---- : Ringfort - unclassified : LAURCLAVAGH**

*Description: In grassland close to SW limits of a field system (GA057-164—). Poorly preserved almost circular cashel (D 25m) defined by a collapsed drystone wall completely obscured by overgrowth from N through E to SE. A D-shaped structure of stone (L 2.9m, With 2.4m) abuts the inner face of the cashel wall at SSW; possibly a house. An enclosure (GA057-132—) lies 100m to SW. (ASGAP 384:30, 32) The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

This monument is located a short distance NE of enclosure GA057-132— and was also visited as part of this assessment. No surface trace of the ringfort was visible (Plate 13-4).



Plate 13-4: Site of Ringfort GA057-133— looking NE.

#### 13.3.3.3.4 **GA056-036---- : Enclosure : BUNNAHEVELLY BEG**

*Description: In level grassland. Marked on 3rd ed. of OS 6-inch map (1920) as an oval enclosure (E-W c. 40m) overlain from NE through S to SW by a field boundary. Inaccessible at time of visit due to impenetrable overgrowth. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

A review of the available aerial photography does not show any features which might relate to this monument which was not accessible at the time of field survey for this assessment.

#### 13.3.3.3.5 **GA056-039---- : Redundant record : BUNNAHEVELLY MORE**

*Description: This record relates to a curving field boundary and not an archaeological monument. Compiled by: Olive Alcock Date of upload: 17 October 2014.*

#### 13.3.3.3.6 **GA057-164---- : Field system : LAURCLAVAGH**

*Description: In flat open farmland with patches of exposed limestone pavement. Aerial reconnaissance in November 1987 (ASGAP 384:28-32, 34) revealed an extensive series of field walls covering an area c. 1000m N-S by c. 600m E-W. A large number of fields of varying sizes and shapes were enclosed by collapsed stone walls. When inspected in 2008 numerous collapsed drystone walls (With 1.75m-2.7m; max. int. H 0.3m; max. ext. H 0.3m) were evident across a large field subrectangular field (dims. c. 500m N-S; c. 450m E-W) delimited by later drystone walls. The fields immediately to the E and S had been reclaimed. Two possible hut sites (GA057-164001- and GA057-164002-) were noted. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). In certain instances the entries have been revised and updated in the light of recent research. Updated by: Olive Alcock Date of revised upload: 28 August 2016.*

The area of the field system and hut sites were visited as part of this assessment. Some low field walls were apparent as per the above description and the available aerial photography. The field system now appears to be confined to a large sub-rectangular field of rough pasture to the north of the proposed access road between T6 and T7 and no evidence for any field walls was apparent in the field through which the proposed road extends or in the area of T6 and T7.



Plate 13-5: Low overground stone wall in field of rough pasture and area of GA057-164— field system.

Both hut sites (GA057-164001- and 002-) were also extant (see below).

#### 13.3.3.3.7 **GA057-164001- : Hut site : LAURCLAVAGH**

*Description: Adjoining the S side of a field wall associated with the field system (GA057-164—). This slightly sunken D-shaped area (dims. 6m ENE-WSW; 4m NNW-SSE) is defined by the low remains of a bank of earth and stone (With 2.6m; int. H 0.2m; ex. H 0.2m) which is sod covered. Compiled by: Olive Alcock Date of upload: 26 August 2016.*



Plate 13-6: Hut site GA057-164001-, looking E.

#### 13.3.3.3.8

#### **GA057-164002- : Hut site : LAURCLAVAGH**

*Description: Within the N area of a field system (GA057-164—). A circular area (dims. 4.5m N-S; 4m E-W) is defined by the remains of low earthen and stone sod-covered wall (With 1.5-2m; int. H 0.3-0.4m; ext. H 0.15m). The interior is slightly sunken (D 0.15-0.25m) and it has been backfilled with loose stone. Compiled by: Olive Alcock Date of upload: 26 August 2016.*



Plate 13-7: Hut site GA057-164002, looking SE.

#### 13.3.3.3.9

#### **GA057-129---- : Well : KILCURRIV EIGHTER**

A description of this monument is not currently available on the HEV. The monument was visited during field survey carried out for this assessment and the well was not readily visible being located in an area of overgrowth. It is indicated and named on both the 1<sup>st</sup> and 2<sup>nd</sup> editions of the historic OS maps.



Plate 13-8: Area of well GA057-129—, looking NE.

#### 13.3.3.3.10

### **GA057-114---- : Ringfort - unclassified : KILCURRIVARD**

*Description: In level grassland. Poorly preserved almost circular ringfort (D 39m) defined by a bank of earth and stone. A field wall cuts the monument at NNW and SSE. A hollow (L 5.2m, With 2.5m), running NW-SE, is visible within SE quadrant of the interior. A ringfort (GA057-116—) lies c. 200m to SW and a house (GA057-115—) c. 100m to WSW. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

This monument was also visited as part of the field survey carried out for this assessment. It comprises an upstanding monument defined by a low earth and stone bank.



Plate 13.9: Ringfort GA057-114—, looking SW.

13.3.3.3.11

**GA057-115---- : House - indeterminate date : KILCURRIVARD**

*Description: Circa 70m to NNE of a ringfort (GA057-116—). A poorly preserved rectangular house (E-W; L 7.2m, With 4.2m) defined by intermittent foundation stones indicating inner and outer wall-facing. The E end is totally obscured by bushes. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

This monument was visited during field survey for the assessment. It is an upstanding monument defined by large limestones on which trees and bushes were growing. It is, however, located c. 38m south-west of where it is shown on the HEV.



Plate 13-10: House GA057-115—, looking NE.

#### 13.3.3.3.12 **GA057-116---- : Ringfort - unclassified : KILCURRIVARD**

*Description: On a rise in grassland. Poorly preserved roughly circular cashel (D 44.3m) defined by a drystone wall. Within W sector of the interior are an internal division and two rectangular stone structures: (a) (N-S; L 6m, With 2.9m), and (b) (NE-SW; L 3m, With 2m), possible houses. Another house (GA057-115—) lies c. 70m to NNE. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

This monument was also visited during the site walk-over. It is an upstanding monument defined by an earth and stone bank which is largely overgrown.



*Plate 13-11: Ringfort GA057-116—, looking SW.*



*Plate 13-12: South side of ringfort GA057-116—, looking N.*

**13.3.3.3.13 GA056-038---- : Enclosure : BUNNAHEVELLY MORE**

*Description: Some 80m SW of ringfort (GA056-037---). Marked on OS Fair Plan as 'Stone Circle' and OS 6-inch maps as an irregular enclosure (E-W c. 40m, N-S c. 30m). Apart from a large pile of field-clearance rubble, no visible surface trace survives. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

**13.3.3.3.14 GA056-037---- : Ringfort - unclassified : BUNNAHEVELLY MORE**

*Description: On a gentle rise in undulating grassland. Well-preserved circular cashel (D 50m) defined by a drystone wall. Numerous gaps in the wall appear modern. Field clearance obscures the outer wall-face at SW. The interior has been partly bulldozed. An enclosure (GA056-038---) lies c. 80m to SW. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

**13.3.3.3.15 GA056-088---- : Enclosure : LAURCLAVAGH**

*Description: On level ground. Marked on 3rd ed. of OS 6-inch map (1920) as a circular enclosure (D c. 50m ext.) cut by the td. boundary at WNW and NNE. No visible surface trace survives. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

**13.3.3.3.16 GA057-118---- : Enclosure : KILCURRIVARD**

*Description: On level reclaimed ground sloping slightly towards SE. Marked on 3rd ed. of OS 6-inch map (1933) as a circular enclosure (D c. 50m). No visible surface trace survives. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

**13.3.3.3.17 GA057-127---- : Redundant record : KILCURRIVARD**

*Description: In pastureland in an area that has been extensively reclaimed. A small circular feature marked on the 1933 edition of the OS 6-inch map proved on inspection in 1984 to a natural watering hole and not an archaeological monument. Compiled by: Olive Alcock Date of upload: 10 November 2014.*

**13.3.3.3.18 GA057-117---- : Ringfort - unclassified : KILCURRIVARD**

*Description: In level grassland. Poorly preserved subcircular ringfort (E-W 27.5m) defined by a bank of earth and stone overlain by field clearance at E. Within the interior is a souterrain (GA057-117001-). The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*



Plate 13-13: Ringfort GA057-117—, looking S.

13.3.3.3.19 **GA057-117001- : Souterrain : KILCURRIVARD**

*Description: In W half of a ringfort (GA057-117—). A drystone-built souterrain, L-shaped in plan, which has been infilled and is now inaccessible. Two sections are discernible: the 1st (L 5.5m, With 1.1m) runs E-W. There is a gap to E between it and the 2nd section (L 4m, With 1.43m) which runs on a N-S axis. One roof lintel is visible in both parts. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

13.3.3.3.20 **GA057-046---- : Redundant record : BALLYNACREG NORTH**

*Description: In reclaimed land. Indicated on the 1933 edition of the OS 6-inch map as a curving field boundary. No visible surface trace survives. It was probably cleared away during the reclamation works. The cartographic evidence suggests that it was simply a curving field boundary. Compiled by: Olive Alcock Date of upload: 20 October 2014.*

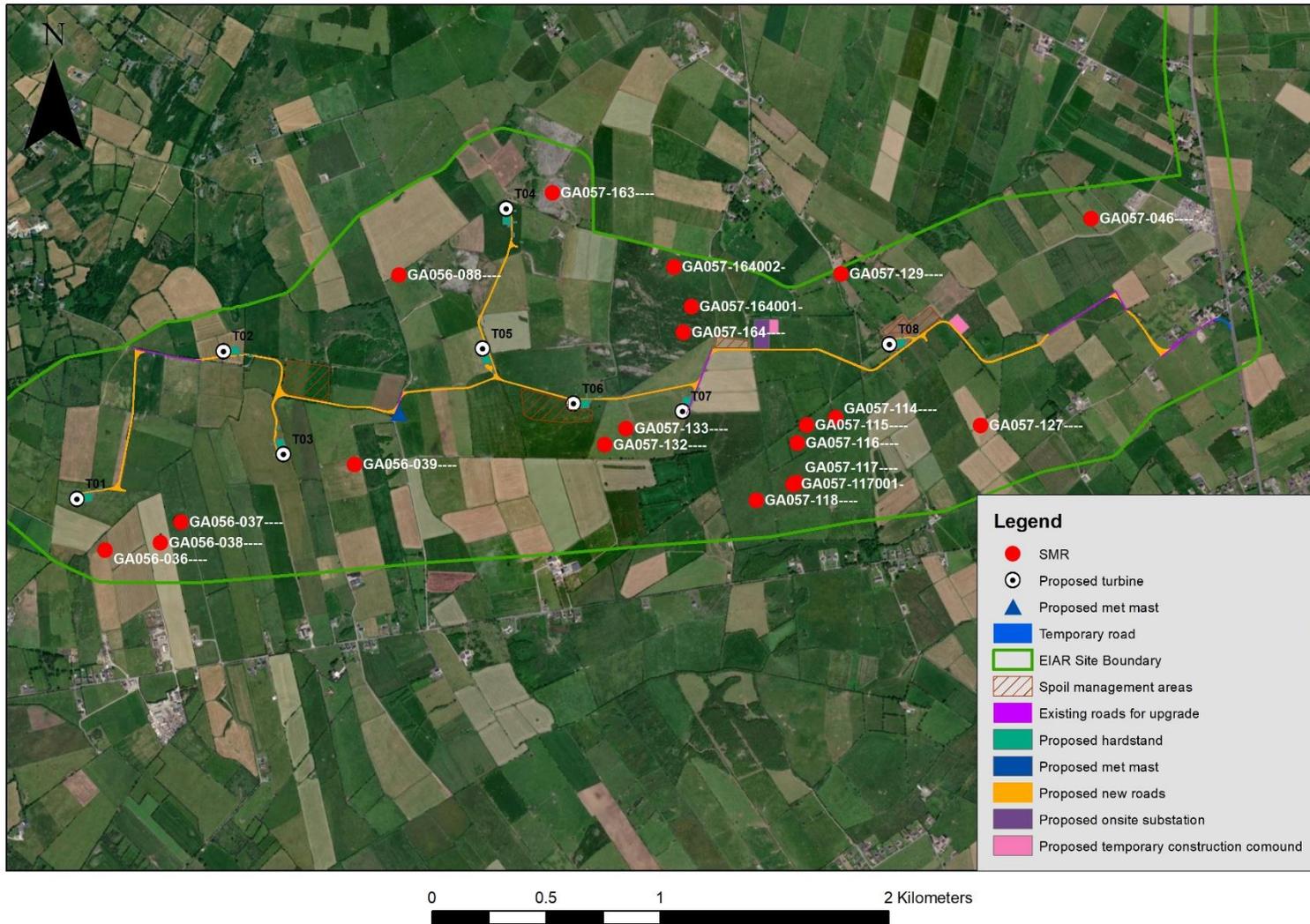


Figure 13-4 Recorded monuments within the Proposed Wind Farm site.

#### 13.3.3.4 Previously Unrecorded Monuments within the Proposed Wind Farm site

One potential archaeological monument was noted within the Proposed Wind Farm site during the walk-over survey (Figure 13-5). It comprises a sub-circular possible enclosure which is situated towards the east end of the site. It is roughly defined by a raised earth and stone bank consisting of both large and medium sized limestone boulders. Interior is strewn with stone with trees growing therein and is slightly raised above the level of the surrounding field. It is not indicated on any of the available editions of the historic mapping. The enclosure is located c. 46m east of a proposed new road and c. 78m south-east of a proposed temporary construction compound.



Plate 13-14: Possible enclosure, looking NE.



*Plate 13-15: Possible enclosure, looking N.*



Figure 13-5: Possible new enclosure within Proposed Wind Farm site.

### 13.3.3.5 Recorded Monuments within 5km of the nearest proposed turbine

A total of four hundred and thirty-five (435) recorded monuments are located within 5km of the nearest proposed turbine. This number includes the monuments located within the Proposed Wind Farm site discussed above in Section 13.3.3.3. The monument locations are shown on Figure 13-6 and listed in Table 13.5. The ZTV shows that 415 of the 435 monuments are located in areas where 7-8 turbines will theoretically be visible (Figure 13-7). An overview of the broad periods and monument types represented within the 5km study area is presented below.

Table 13.5: Recorded monuments within 5km of the nearest proposed turbine.

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
1	GA057-163—	KILCURRIV EIGHTER	536802	744466	House - indeterminate date	T04	215
2	GA057-132—	LAURCLAVAGH	537032	743372	Enclosure	T06	224
3	GA056-036—	BUNNAHEVELLY BEG	534843	742913	Enclosure	T01	254
4	GA057-133—	LAURCLAVAGH	537125	743441	Ringfort - unclassified	T06	255
5	GA056-039—	BUNNAHEVELLY MORE	535936	743285	Redundant record	T03	315
6	GA057-164—	LAURCLAVAGH	537376	743860	Field system	T07	344
7	GA057-129—	KILCURRIV EIGHTER	538066	744113	Well	T08	371
8	GA057-114—	KILCURRIVARD	538042	743489	Ringfort - unclassified	T08	397
9	GA056-038—	BUNNAHEVELLY MORE	535085	742945	Enclosure	T01	412
10	GA057-164001-	LAURCLAVAGH	537410	743971	Hut site	T07	457
11	GA056-037—	BUNNAHEVELLY MORE	535175	743035	Ringfort - unclassified	T01	467



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
12	GA056-062—	CLUIDREVAGH	535535	744215	Enclosure	T02	471
13	GA056-060—	CLUIDREVAGH	535299	744255	Ringfort - unclassified	T02	482
14	GA056-088—	LAURCLAVAGH	536130	744108	Enclosure	T05	487
15	GA057-045—	BALLYNACREG NORTH,KILCUR RIV EIGHTER	538322	744296	Redundant record	T08	490
16	GA056-041—	CAHERMORRIS	534385	742775	Ringfort - cashel	T01	491
17	GA056-041001-	CAHERMORRIS	534385	742775	Souterrain	T01	491
18	GA057-118—	KILCURRIVARD	537696	743130	Enclosure	T07	505
19	GA057-115—	KILCURRIVARD	537915	743457	House - indeterminate date	T08	505
20	GA057-116—	KILCURRIVARD	537875	743378	Ringfort - unclassified	T07	523
21	GA056-061—	CLUIDREVAGH	534854	743906	Redundant record	T02	524
22	GA057-076001-	CARROWNAHER ICK EAST	536739	744905	Ringfort - cashel	T04	528
23	GA057-076003-	CARROWNAHER ICK EAST	536739	744905	House - indeterminate date	T04	528



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
24	GA057-076004-	CARROWNAHER ICK EAST	536739	744905	House - indeterminate date	T04	528
25	GA057-127—	KILCURRIVARD	538678	743455	Redundant record	T08	533
26	GA057-076002-	CARROWNAHER ICK EAST,KILCURRIV EIGHTER	536883	744857	Field system	T04	541
27	GA057-160—	KILCURRIV EIGHTER	536907	744869	House - indeterminate date	T04	564
28	GA056-059—	CLUIDREVAGH	534957	744173	Ringfort - unclassified	T02	566
29	GA057-117001-	KILCURRIVARD	537856	743200	Souterrain	T07	579
30	GA057-117—	KILCURRIVARD	537871	743206	Ringfort - unclassified	T07	588
31	GA057-164002-	LAURCLAVAGH	537334	744144	Hut site	T07	629
32	GA056-023—	BIGGERA MORE	535585	744535	Ringfort - unclassified	T02	790
33	GA057-122—	KILCURRIVARD	537993	743012	Souterrain	T07	801
34	GA057-123—	KILCURRIVARD	538153	743002	Enclosure	T08	816
35	GA057-119—	KILCURRIVARD	537932	742911	Ringfort - unclassified	T07	825



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
36	GA056-042—	CAHERMORRIS	534102	742527	Ringfort - cashel	T01	866
37	GA056-043001-	CAHERMORRIS	534164	742469	Enclosure - large enclosure	T01	867
38	GA056-043002-	CAHERMORRIS	534164	742469	Castle - unclassified	T01	867
39	GA056-143—	BUNNAHEVELLY MORE	535261	742272	Children's burial ground	T01	1019
40	GA057-046—	BALLYNACREG NORTH	539162	744354	Redundant record	T08	1039
41	GA057-124001-	KILCURRIVARD	539208	743275	Redundant record	T08	1072
42	GA057-162—	KILCURRIV EIGHTER	537391	745132	Field system	T04	1081
43	GA057-126—	KILCURRIVARD	539134	743145	Burial	T08	1083
44	GA057-121001-	KILCURRIVARD	537911	742571	Souterrain	T07	1088
45	GA057-109—	GARRAUN SOUTH (Clare By.)	538110	744885	Cairn - clearance cairn	T08	1090
46	GA057-124—	KILCURRIVARD	539228	743269	Fulacht fia	T08	1092
47	GA056-145—	CLUIDREVAGH	534396	744294	Souterrain	T02	1096
48	GA057-121—	KILCURRIVARD	537909	742550	Ringfort - cashel	T07	1106



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
49	GA057-121003-	KILCURRIVARD	537884	742536	House - indeterminate date	T07	1106
50	GA056-045—	CAHERMORRIS	533723	742650	Country house	T01	1108
51	GA057-121002-	KILCURRIVARD	537885	742528	House - indeterminate date	T07	1114
52	GA043-031—	CARROWNAHER ICK EAST	536619	745611	Redundant record	T04	1215
53	GA057-125—	KILCURRIVARD	539328	743177	Fulacht fia	T08	1225
54	GA056-022—	BIGGERA MORE	535555	745055	Enclosure	T04	1235
55	GA057-120—	KILCURRIVARD	538370	742470	Ringfort - unclassified	T08	1341
56	GA057-120001-	KILCURRIVARD	538370	742470	Children's burial ground	T08	1341
57	GA056-144—	CLUIDREVAGH	533702	744031	Ringfort - cashel	T01	1355
58	GA057-176—	BUNOGHANAUN	536996	742193	Enclosure	T06	1360
59	GA057-064—	BUNOGHANAUN	536974	741976	Ringfort - unclassified	T06	1575
60	GA043-082—	GARRAUN SOUTH (Clare By.)	537983	745365	Well	T08	1585
61	GA043-083—	GARRAUN SOUTH (Clare By.)	537861	745516	Redundant record	T04	1687

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
62	GA056-142003-	PARKANALLACAN	533424	744219	Enclosure	T01	1689
63	GA056-142002-	PARKANALLACAN	533424	744220	Souterrain	T01	1689
64	GA057-134002-	MONEEN (Clare By.)	539546	744929	House - indeterminate date	T08	1692
65	GA057-134003-	MONEEN (Clare By.)	539542	744958	House - indeterminate date	T08	1709
66	GA056-069—	GLENREVAGH (Clare By.)	533814	741685	Anomalous stone group	T01	1709
67	GA056-066—	GLENREVAGH (Clare By.)	533899	741635	Enclosure	T01	1710
68	GA056-066001-	GLENREVAGH (Clare By.)	533899	741635	Souterrain	T01	1710
69	GA057-134001-	MONEEN (Clare By.)	539542	744959	Souterrain	T08	1710
70	GA057-134—	MONEEN (Clare By.)	539555	744947	Ringfort - rath	T08	1711
71	GA043-081—	GARRAUN SOUTH (Clare By.)	537641	745755	Redundant record	T04	1712

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
72	GA056-065—	GLENREVAGH (Clare By.)	533663	741780	Children's burial ground	T01	1718
73	GA056-065001-	GLENREVAGH (Clare By.)	533663	741780	Enclosure	T01	1718
74	GA056-030—	BUNATOVER	533205	742285	Ringfort - unclassified	T01	1736
75	GA057-149—	AN TAMHNACH MHÓR	539846	743062	Redundant record	T08	1736
76	GA057-099—	CUMMER	539750	744768	Mound	T08	1757
77	GA057-066—	CAHERAVOLEY	538656	742079	Ringfort - unclassified	T08	1770
78	GA057-102—	CUMMER	539630	744959	House - indeterminate date	T08	1776
79	GA056-033—	BUNATOVER	532965	742815	Earthwork	T01	1783
80	GA056-142001-	PARKANALLACA N	533350	744282	Children's burial ground	T01	1786
81	GA056-031—	BUNATOVER	533122	742316	Earthwork	T01	1795
82	GA057-100—	CUMMER	539816	744734	Mound	T08	1795
83	GA056-067—	GLENREVAGH (Clare By.)	534504	741351	Redundant record	T01	1797

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
84	GA057-101—	CUMMER	539860	744734	Mound	T08	1833
85	GA057-069—	CAHERAVOLEY	538659	742003	House - indeterminate date	T08	1845
86	GA057-097—	CUMMER	539714	744983	Redundant record	T08	1855
87	GA057-148—	AN TAMHNACH MHÓR	539789	742692	Ringfort - unclassified	T08	1878
88	GA056-032—	BUNATOBER	533195	742016	Ringfort - unclassified	T01	1891
89	GA056-064—	FEARAGHA	534114	745209	Ringfort - unclassified	T02	1900
90	GA056-024010-	BOLISHEEN	535716	741416	Megalithic structure	T03	1915
91	GA042-128—	FEARAGHA	534462	745517	Ringfort - unclassified	T02	1959
92	GA057-178001-	CLOGH SOUTH	540010	744732	Barrow - unclassified	T08	1963
93	GA056-068—	GLENREVAGH (Clare By.)	533225	741836	Burial ground	T01	1980
94	GA057-098—	CUMMER	539919	744946	Cairn - unclassified	T08	1997
95	GA042-029—	BIGGERA BEG	535565	746105	Ringfort - rath	T04	1997
96	GA057-178002-	CLOGH SOUTH	540044	744750	Barrow - unclassified	T08	2002
97	GA042-127—	FEARAGHA	534328	745509	Ringfort - unclassified	T02	2017

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
98	GA057-153—	AN TAMHNACH MHÓR	540070	742876	Designed landscape feature	T08	2020
99	GA057-071—	CAHERAVOLEY	539524	742155	Ringfort - cashel	T08	2070
100	GA042-129—	FEARAGHA	534544	745679	Redundant record	T02	2070
101	GA057-067008-	CAHERAVOLEY	539000	741865	House - indeterminate date	T08	2073
102	GA057-067009-	CAHERAVOLEY	539000	741865	House - indeterminate date	T08	2073
103	GA057-067005-	CAHERAVOLEY	539000	741865	Ringfort - cashel	T08	2073
104	GA057-067006-	CAHERAVOLEY	539000	741865	House - indeterminate date	T08	2073
105	GA057-067007-	CAHERAVOLEY	539000	741865	House - indeterminate date	T08	2073
106	GA057-067010-	CAHERAVOLEY	538987	741834	House - indeterminate date	T08	2097
107	GA043-067—	CULLEEN	538543	745898	Redundant record	T08	2107
108	GA056-024001-	BOLISHEEN	535501	741170	Ringfort - cashel	T01	2115
109	GA056-024003-	BOLISHEEN	535501	741170	Souterrain	T01	2115
110	GA056-029—	BREDAGH (Clare By.)	532665	743645	Enclosure	T01	2116
110	GA042-030—	BIGGERA BEG	534857	745862	Redundant record	T02	2145

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
111	GA057-067004-	CAHERAVOLEY	538905	741732	Building	T08	2169
112	GA057-145—	STRIPE (Clare By.)	540443	743632	House - indeterminate date	T08	2172
113	GA057-067001-	CAHERAVOLEY	538900	741718	Bawn	T08	2181
114	GA057-067003-	CAHERAVOLEY	538900	741718	House - indeterminate date	T08	2181
115	GA057-144—	STRIPE (Clare By.)	540453	743585	Ringfort - unclassified	T08	2186
116	GA056-024008-	BOLISHEEN	535549	741104	Field system	T01	2194
117	GA057-065—	BUNOGHANAUN	536314	741232	Redundant record	T03	2208
118	GA056-024009-	BOLISHEEN	535190	740973	Ringfort - cashel	T01	2213
119	GA057-067002-	CAHERAVOLEY, KILCAHILL	538914	741676	Field system	T08	2225
120	GA056-135—	TURLOUGHGAR VE	534304	740938	Ringfort - unclassified	T01	2236
121	GA057-067011-	CAHERAVOLEY	539247	741786	Ringfort - cashel	T08	2242
122	GA057-067013-	KILCAHILL	538854	741637	House - indeterminate date	T08	2246
123	GA057-067012-	KILCAHILL	538854	741635	Enclosure	T08	2248

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
124	GA056-027—	BREDAGH (Clare By.)	532765	744265	Enclosure	T01	2257
125	GA056-035—	BUNATOBER	532667	742194	Mill - corn	T01	2257
126	GA057-150—	AN TAMHNACH MHÓR	540342	742837	Designed landscape feature	T08	2281
127	GA057-177—	CARHEENSHOW AGH	540505	744511	Barrow - ring-barrow	T08	2335
128	GA057-151—	AN TAMHNACH MHÓR	540186	742418	Designed landscape feature	T08	2361
129	GA056-024007-	BOLISHEEN	535541	740913	Ringfort - cashel	T01	2369
130	GA056-026—	BOLISHEEN,TOM NAHULLA	535952	740936	Redundant record	T03	2415
131	GA057-070—	CAHERAVOLEY, KILCAHILL	539146	741552	Ringfort - unclassified	T08	2417
132	GA056-028—	BREDAGH (Clare By.)	532357	743683	Ringfort - unclassified	T01	2425
133	GA056-024004-	BOLISHEEN	535811	740903	Ringfort - cashel	T03	2433
134	GA056-024006-	BOLISHEEN	535822	740903	House - indeterminate date	T03	2434

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
135	GA056-024005-	BOLISHEEN	535772	740890	Ringfort - cashel	T03	2443
136	GA042-130—	FEARAGHA	533620	745505	Redundant record	T02	2454
137	GA042-126—	FEARAGHA	533911	745761	Ringfort - cashel	T02	2458
138	GA042-126001-	FEARAGHA	533911	745761	Children's burial ground	T02	2458
139	GA057-152—	AN TAMHNACH MHÓR	540268	742362	Designed landscape feature	T08	2460
140	GA057-078—	CARROWREAGH (Clare By.)	540690	743257	Redundant record	T08	2474
141	GA056-019—	BALROBUCK BEG	533276	741100	Ringfort - unclassified	T01	2495
142	GA056-104—	KNOCKEREEN	532214	743011	Enclosure	T01	2508
143	GA056-136—	TURLOUGHGAR VE	534147	740691	Enclosure	T01	2510
144	GA056-103001-	KNOCKEREEN	532174	743214	Souterrain	T01	2546
145	GA056-103—	KNOCKEREEN	532174	743225	Ringfort - unclassified	T01	2547
146	GA056-034001-	BUNATOBBER	532193	742778	Graveslab	T01	2551
147	GA056-034002-	BUNATOBBER	532193	742778	Ritual site - holy well	T01	2551

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
148	GA042-191—	MANUSLYNN	533476	745531	Ringfort - cashel	T02	2576
149	GA057-170—	KILCAHILL	538531	741202	Barrow - ring-barrow	T07	2588
150	GA056-024011-	BOLISHEEN	535596	740688	Ringfort - cashel	T01	2599
151	GA057-074002-	CARHEENSHOW AGH	540872	744115	Field system	T08	2612
152	GA056-114—	MANUSLYNN	532460	744458	Enclosure	T01	2618
153	GA042-193—	MANUSLYNN	533495	745615	House - indeterminate date	T02	2620
154	GA056-105—	KNOCKEREEN	532086	743121	Enclosure	T01	2633
155	GA043-065—	CULLEEN	538806	746388	Ringfort - unclassified	T08	2633
156	GA057-074001-	CARHEENSHOW AGH,STRIPE (Clare By.)	540915	744009	Ringfort - unclassified	T08	2645
157	GA057-075—	CARHEENSHOW AGH	540876	744487	Quarry	T08	2685
158	GA042-077—	CARHEENS	535826	746984	Designed landscape feature	T04	2701
159	GA042-131—	FEARAGHA	533815	746035	Earthwork	T02	2737



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
160	GA056-098—	KILROE	532037	742574	Designed landscape - tree-ring	T01	2740
161	GA057-080—	CLOGH SOUTH	540623	745274	Enclosure	T08	2766
162	GA056-102—	KNOCKEREEN	531951	743172	Ringfort - unclassified	T01	2768
163	GA042-234—	FEARAGHA	533837	746099	House - 18th/19th century	T02	2778
164	GA057-068001-	CAHERAVOLEY	539634	741354	Souterrain	T08	2804
165	GA057-017001-	ARDGAINEN	536889	740744	Structure	T06	2805
166	GA057-068—	CAHERAVOLEY	539645	741357	Ringfort - unclassified	T08	2806
167	GA057-017—	ARDGAINEN	536891	740734	Redundant record	T06	2815
168	GA056-097002-	KILROE	531936	742684	Kiln - lime	T01	2819
169	GA057-112—	KILCAHILL	539136	741119	Well	T08	2823
170	GA056-097—	KILROE	531889	742756	Designed landscape - tree-ring	T01	2855
171	GA057-079—	CARROWREAGH (Clare By.)	541078	743194	Designed landscape feature	T08	2867
172	GA043-069001-	CULLEEN	539114	746555	Souterrain	T08	2871

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
173	GA043-069—	CULLEEN	539114	746555	Ringfort - cashel	T08	2871
174	GA056-137—	TURLOUGHGARVE	534709	740255	Inscribed stone	T01	2880
175	GA043-074—	CUMMER	539934	746185	Ringfort - cashel	T08	2897
176	GA056-097001-	KILROE	531839	742773	Designed landscape - tree-ring	T01	2903
177	GA057-073—	CARHEENSHOWAGH	541073	744795	Enclosure	T08	2964
178	GA042-125—	FEARAGHA	534065	746445	Ringfort - rath	T02	2967
179	GA057-143001-	STRIPE (Clare By.)	541248	744052	Souterrain	T08	2980
180	GA043-002—	BALLAGH	538504	746788	Redundant record	T08	2989
181	GA056-115—	MANUSLYNN	532360	744972	Ringfort - unclassified	T01	2990
182	GA057-143—	STRIPE (Clare By.)	541265	744060	Ringfort - unclassified	T08	2998
183	GA056-101001-	KNOCKEREEN	531705	743295	Souterrain	T01	3018
184	GA056-101—	KNOCKEREEN	531698	743293	Ringfort - unclassified	T01	3025
185	GA043-068—	CULLEEN	539609	746539	Redundant record	T08	3038



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
186	GA042-190—	MANUSLYNN	533216	745939	Ringfort - cashel	T02	3046
187	GA057-167—	ARDGAINEN	538144	740568	Redundant record	T07	3048
188	GA057-166—	ARDGAINEN	538172	740554	Barrow - ring-barrow	T07	3068
189	GA042-211—	POLLNAHALLIA	535101	747077	Redundant record	T04	3071
190	GA042-076004-	CARHEENS	536131	747439	House - indeterminate date	T04	3079
191	GA042-076—	CARHEENS	536135	747441	Children's burial ground	T04	3080
192	GA042-076001-	CARHEENS	536123	747442	Enclosure	T04	3083
193	GA042-076005-	CARHEENS	536123	747442	House - indeterminate date	T04	3083
194	GA042-076006-	CARHEENS	536123	747442	House - indeterminate date	T04	3083
195	GA042-076007-	CARHEENS	536123	747442	House - indeterminate date	T04	3083
196	GA057-165—	ARDGAINEN	538185	740537	Souterrain	T07	3088
197	GA042-076003-	CARHEENS	536133	747450	Well	T04	3089
198	GA042-076002-	CARHEENS	536133	747455	House - indeterminate date	T04	3094
199	GA057-135—	MYLESPARK	541363	743431	Ringfort - unclassified	T08	3108
200	GA057-135001-	MYLESPARK	541363	743431	Souterrain	T08	3108



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
201	GA042-189001-	MANUSLYNN	533152	745972	Ringfort - cashel	T02	3115
202	GA042-189002-	MANUSLYNN	533178	746005	Cairn - unclassified	T02	3120
203	GA043-085005-	GLEBE (Cummer ED)	540448	746086	Well	T08	3146
204	GA043-043—	CLOGH NORTH	540764	745765	Ringfort - rath	T08	3164
205	GA043-085003-	GLEBE (Cummer ED)	540500	746068	Graveyard	T08	3169
206	GA043-085002-	GLEBE (Cummer ED)	540501	746075	Church	T08	3175
207	GA043-085001-	CUMMER, GLEBE (Cummer ED)	540500	746078	Ecclesiastical enclosure	T08	3177
208	GA043-085004-	GLEBE (Cummer ED)	540505	746076	Burial	T08	3179
209	GA057-146—	AN TAMHNACH MHÓR	541200	742524	Castle - tower house	T08	3192
210	GA057-002001-	TOMNAHULLA	540774	741741	Souterrain	T08	3241
211	GA042-212—	POLLNAHALLIA	534945	747184	Ringfort - cashel	T04	3242

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
212	GA056-138003-	TURLOUGHGARVE	534591	739888	House - indeterminate date	T01	3250
213	GA056-138004-	TURLOUGHGARVE	534517	739884	House - indeterminate date	T01	3257
214	GA057-002—	ANBALLY	540777	741715	Ringfort - unclassified	T08	3260
215	GA056-020—	BALROBUCKMORE	533105	740276	Enclosure	T01	3283
216	GA056-138002-	TURLOUGHGARVE	534557	739853	House - indeterminate date	T01	3286
217	GA056-138—	TURLOUGHGARVE	534515	739816	Field system	T01	3325
218	GA042-124—	FEARAGHA	533635	746625	Ringfort - cashel	T02	3331
219	GA056-138001-	TURLOUGHGARVE	534433	739802	Ringfort - cashel	T01	3345
220	GA057-147—	AN TAMHNACHMHÓR	541295	742334	Children's burial ground	T08	3358
221	GA056-013—	BALLYDONNELLAN	531352	743187	Ringfort - unclassified	T01	3367

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
222	GA056-013001-	BALLYDONNELL AN	531352	743188	Souterrain	T01	3367
223	GA056-138005-	TURLOUGHGAR VE	534355	739779	House - indeterminate date	T01	3376
224	GA056-138006-	TURLOUGHGAR VE	534555	739763	Fulacht fia	T01	3376
225	GA057-110001-	KILCAHILL	539475	740610	Ringfort - cashel	T08	3415
226	GA057-110002-	KILCAHILL	539482	740607	Field system	T08	3420
227	GA057-110—	KILCAHILL	539446	740592	Ringfort - cashel	T08	3422
228	GA056-138007-	TURLOUGHGAR VE	534385	739727	Redundant record	T01	3424
229	GA042-188—	MANUSLYNN	532720	745973	Ringfort - rath	T02	3435
230	GA042-123—	FEARAGHA,POL LNAHALLIA	533669	746768	Ringfort - cashel	T02	3437
231	GA042-123001-	FEARAGHA	533668	746768	Souterrain	T02	3437
232	GA057-106—	CURRY OUGHTER	541716	743804	Children's burial ground	T08	3438
233	GA043-071—	CUMMER	540277	746627	Earthwork	T08	3456

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
234	GA056-141—	TURLOUGHGARVE	534895	739660	Enclosure	T01	3479
235	GA056-085001-	KILCOONA	531366	744158	Church	T01	3506
236	GA056-085002-	KILCOONA	531356	744135	Graveyard	T01	3509
237	GA056-085003-	KILCOONA	531356	744149	Round tower	T01	3513
238	GA042-195—	MANUSLYNN	532717	746093	Redundant record	T02	3516
239	GA042-194—	MANUSLYNN	532635	746005	House - indeterminate date	T02	3521
240	GA043-076004-	CUMMER	540584	746480	House - indeterminate date	T08	3529
241	GA043-076002-	CUMMER	540584	746485	Enclosure	T08	3533
242	GA043-076003-	CUMMER	540584	746486	House - indeterminate date	T08	3534
243	GA056-016—	BALLYDONNELLAN	531206	742745	Sweathouse	T01	3535
244	GA057-154001-	TOMNAHULLA	536693	739956	House - indeterminate date	T03	3538
245	GA057-016—	ARDGAINEN	537202	739956	Ringfort - cashel	T07	3564
246	GA042-213001-	POLLNAHALLIA	533685	746925	Enclosure	T02	3567
247	GA057-154—	TOMNAHULLA	536681	739916	Ringfort - cashel	T03	3573

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
248	GA057-111—	KILCAHILL	539539	740458	Cairn - wayside cairn	T08	3579
249	GA042-210—	POLLNAHALLIA	534402	747230	Redundant record	T02	3584
250	GA057-019—	ARDGAINEN	537155	739936	House - indeterminate date	T07	3587
251	GA043-076005-	CUMMER	540606	746552	Fulacht fia	T08	3598
252	GA057-158—	TOMNAHULLA	536744	739896	House - indeterminate date	T03	3611
253	GA057-158001-	TOMNAHULLA	536744	739896	House - indeterminate date	T03	3611
254	GA057-085006-	CORRANDRUM	539363	740361	House - indeterminate date	T08	3614
255	GA057-085007-	CORRANDRUM	539363	740361	House - indeterminate date	T08	3614
256	GA057-085001-	CORRANDRUM	539356	740358	Church	T08	3614
257	GA057-085008-	CORRANDRUM	539363	740360	Enclosure	T08	3615
258	GA057-085004-	CORRANDRUM	539363	740360	House - indeterminate date	T08	3615
259	GA057-085005-	CORRANDRUM	539363	740360	House - indeterminate date	T08	3615
260	GA057-085002-	CORRANDRUM	539367	740355	House - indeterminate date	T08	3621
261	GA057-085003-	CORRANDRUM	539350	740348	Children's burial ground	T08	3622
262	GA057-096—	CORROFIN	541900	743459	Country house	T08	3639



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
263	GA043-070—	CUMMER	540532	746666	Castle - tower house	T08	3640
264	GA043-070001-	CUMMER	540546	746659	Bawn	T08	3643
265	GA043-076001-	CUMMER	540664	746565	Fulacht fia	T08	3646
266	GA057-018—	ARDGAINEN	537034	739856	House - indeterminate date	T07	3675
267	GA042-208—	POLLNAHALLIA	533775	747094	Souterrain	T02	3677
268	GA056-021—	BALROBUCK MORE,SHANBAL LY (Clare By.)	532365	740299	Forge	T01	3686
269	GA057-156—	TOMNAHULLA	536404	739706	Redundant record	T03	3706
270	GA057-003—	ANBALLY	540644	740946	Field system	T08	3713
271	GA056-011—	BALLYDONNELL AN	530997	742920	Ringfort - unclassified	T01	3728
272	GA043-072—	CUMMER	540893	746493	Enclosure	T08	3748
273	GA057-001—	ANBALLY	541006	741236	Castle - tower house	T08	3749
274	GA057-001001-	ANBALLY	540996	741217	Bawn	T08	3755
275	GA056-070001-	GRANGE (Annaghdown ED)	531619	741005	Church	T01	3761



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
276	GA056-070002-	GRANGE (Annaghdown ED)	531617	741003	Children's burial ground	T01	3764
277	GA057-001002-	ANBALLY	541040	741222	Bawn	T08	3784
278	GA056-084—	KILCOONA	531030	744036	Enclosure	T01	3797
279	GA057-086—	CORRANDRUM	539628	740252	Redundant record	T08	3804
280	GA056-049—	CARROWBEG NORTH (Liscananaun ED)	534031	739392	House - indeterminate date	T01	3806
281	GA057-105—	CURRYLAUR	541976	744728	Building	T08	3811
282	GA043-122—	RUSHEENS SOUTH	540431	746958	Quarry	T08	3815
283	GA057-093—	CORROFIN	542079	743418	Designed landscape feature	T08	3821
284	GA057-103—	CURRYLAUR	542003	744674	Redundant record	T08	3824
285	GA042-062—	CALTRAGH (Killover ED)	534570	747648	Enclosure	T04	3833
286	GA056-048—	CARROWBEG NORTH (Claretuam ED)	533822	739394	Redundant record	T01	3847

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
287	GA043-087—	GLENNAFOSHA	539065	747580	Ringfort - cashel	T08	3853
288	GA042-144—	GORTNAPORIA	531986	745855	Enclosure	T01	3856
289	GA042-209—	POLLNAHALLIA	533465	747134	Ringfort - cashel	T02	3856
290	GA042-209001-	POLLNAHALLIA	533465	747134	Souterrain	T02	3856
291	GA056-134—	TOMNAHULLA	535339	739328	Field system	T01	3857
292	GA056-071—	INISH	531456	741044	Mill - corn	T01	3875
293	GA057-092—	CORROFIN	542139	743466	Designed landscape feature	T08	3876
294	GA056-119—	MAUSREVAGH	530876	743665	Children's burial ground	T01	3879
295	GA056-134002-	TOMNAHULLA	535273	739295	House - indeterminate date	T01	3880
296	GA056-134001-	TOMNAHULLA	535391	739307	House - indeterminate date	T01	3887
297	GA042-207—	POLLNAHALLIA	533725	747304	Designed landscape feature	T02	3888
298	GA043-138—	CAHERHUGH	538249	747917	Ringfort - cashel	T04	3888
299	GA057-094—	CORROFIN	542194	743625	Designed landscape feature	T08	3920
300	GA056-010—	BALLYCASEY	531216	744895	Souterrain	T01	3920
301	GA057-104—	CURRYLAUR	542108	744738	Redundant record	T08	3941

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
302	GA056-053001-	COR AN DOLA	533385	739415	Church	T01	3952
303	GA042-145—	GORTNAPORIA	531729	745723	Well	T01	3954
304	GA056-053002-	COR AN DOLA	533375	739404	Graveyard	T01	3966
305	GA057-027—	AUCLOGGEEN,T OMNAHULLA	537000	739565	Enclosure	T07	3968
306	GA043-017—	CAHERHUGH	538523	747878	Country house	T04	3978
307	GA057-155—	TOMNAHULLA	536925	739558	Enclosure	T07	3983
308	GA057-095—	CORROFIN	542263	743645	Designed landscape feature	T08	3988
309	GA056-002001-	AUCLOGGEEN	535695	739257	Church	T01	3999
310	GA056-002002-	AUCLOGGEEN	535696	739248	Graveyard	T01	4008
311	GA057-025—	AUCLOGGEEN,T OMNAHULLA	536550	739428	Ringfort - cashel	T03	4009
312	GA057-025001-	AUCLOGGEEN	536550	739428	House - indeterminate date	T03	4009
313	GA057-025002-	AUCLOGGEEN	536550	739428	Hut site	T03	4009
314	GA042-064002-	CALTRAGH (Killover ED)	536125	748393	Cairn - unclassified	T04	4025

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
315	GA056-087—	KILCOONA	530886	744425	Cairn - unclassified	T01	4044
316	GA042-069—	CALTRAGH (Killower ED)	534495	747854	Ringfort - unclassified	T04	4048
317	GA042-064005-	CALTRAGH (Killower ED)	536029	748409	Cross	T04	4053
318	GA042-238—	POLLNAHALLIA	533918	747572	Enclosure	T02	4060
319	GA057-026—	AUCLOGGEEEN,T OMNAHULLA	536758	739428	Ringfort - unclassified	T03	4062
320	GA057-157—	TOMNAHULLA	536804	739436	Redundant record	T03	4068
321	GA043-121—	RUSHEENS SOUTH	540613	747145	Religious house - unclassified	T08	4073
322	GA042-064—	CALTRAGH (Killower ED)	536000	748427	Cairn - unclassified	T04	4075
323	GA042-064001-	CALTRAGH (Killower ED)	536000	748427	Designed landscape - folly	T04	4075
324	GA057-047—	BALLYNACREG SOUTH	542255	742892	Cairn - unclassified	T08	4081
325	GA057-090—	CORROFIN	542325	743238	Enclosure	T08	4087



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
326	GA056-001—	AUCLOGGEEN	535603	739135	Children's burial ground	T01	4097
327	GA056-050001-	CARROWBEG SOUTH (Claretuam ED)	533757	739148	Church	T01	4101
328	GA043-129002-	TOBERMINA	536530	748511	Castle - unclassified	T04	4116
329	GA043-103—	KNOCKACARRIGEEN	538276	748157	Ringfort - rath	T04	4118
330	GA042-064004-	CALTRAGH (Killover ED)	535911	748457	Cairn - unclassified	T04	4119
331	GA043-129001-	TOBERMINA	536535	748516	Ringfort - cashel	T04	4120
332	GA056-009—	BALLYCASEY	531156	745215	Enclosure	T01	4126
333	GA056-050002-	CARROWBEG SOUTH (Claretuam ED)	533788	739099	Burial ground	T01	4142
334	GA042-068—	CALTRAGH (Killover ED)	534845	748151	Enclosure	T04	4144
335	GA042-221—	TOBERMINA	536179	748529	Designed landscape - summer house	T04	4154

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
336	GA042-067—	CALTRAGH (Killover ED)	534845	748167	Enclosure	T04	4159
337	GA042-063—	CALTRAGH (Killover ED)	535722	748496	Designed landscape - folly	T04	4193
338	GA056-063—	COR AN DOLA	532385	739636	Ringfort - rath	T01	4206
339	GA056-063001-	COR AN DOLA	532385	739636	Souterrain	T01	4206
340	GA042-061—	CALTRAGH (Killover ED)	534239	747930	Ringfort - rath	T04	4250
341	GA042-061001-	CALTRAGH (Killover ED)	534239	747930	Souterrain	T04	4250
342	GA042-066—	CALTRAGH (Killover ED)	534855	748274	Enclosure	T04	4252
343	GA057-089001-	CORROFIN	542516	743352	Bridge	T08	4262
344	GA056-086—	KILCOONA	530701	744610	Cairn - unclassified	T01	4280
345	GA056-005—	BALLINDUFF (Clare By.)	530666	741756	Souterrain	T01	4281
346	GA056-003—	BALLINDUFF (Clare By.)	530618	741898	Castle - tower house	T01	4283

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
347	GA057-161—	CORROFIN	542523	743205	Road - road/trackway	T08	4288
348	GA057-091—	CORROFIN,TURL OUGHMARTIN	542557	743411	Bridge	T08	4297
349	GA069-008—	CARROWBEG SOUTH (Liscananaun ED)	534023	738893	Redundant record	T01	4299
350	GA042-231—	POLLNAHALLIA	533944	747840	Hillfort	T02	4303
351	GA057-089—	CORROFIN	542556	743321	Castle - tower house	T08	4306
352	GA042-225—	CASTLEHACKET	535625	748594	Designed landscape - summer house	T04	4310
353	GA043-023—	CARROWBEG SOUTH (Claretuam ED)	537192	748674	Redundant record	T04	4319
354	GA057-172—	CORROFIN	542554	743200	Burial ground	T08	4319
355	GA056-015—	BALLYDONNELL AN	530396	742745	Mound	T01	4341
356	GA056-007—	BALLYCASEY	530847	745108	Ringfort - unclassified	T01	4346
357	GA057-077—	CARROWNROO AUN	539445	739593	Redundant record	T08	4374

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
358	GA042-033—	BOHERCUILL	532185	746785	Ringfort - cashel	T02	4375
359	GA056-017—	BALLYDONNELL AN	530386	742505	House - indeterminate date	T01	4379
360	GA042-143—	GORTNAPORIA	532066	746695	Ringfort - cashel	T02	4402
361	GA057-077001-	CARROWNROO AUN	539450	739555	Redundant record	T08	4412
362	GA043-104—	KNOCKACARRI GEEN	538218	748504	Ringfort - rath	T04	4416
363	GA056-017001-	BALLYDONNELL AN	530352	742482	House - indeterminate date	T01	4416
364	GA043-110—	KNOCKACARRI GEEN	538369	748455	Quarry	T04	4428
365	GA056-118—	MAUSREVAGH	530276	743035	Ringfort - cashel	T01	4444
366	GA056-008—	BALLYCASEY	530896	745405	Enclosure	T01	4446
367	GA043-105002-	KNOCKACARRI GEEN	538140	748572	Ringfort - rath	T04	4451
368	GA043-088—	GLENNAFOSHA	539628	748055	Ringfort - rath	T08	4456
369	GA043-088001-	GLENNAFOSHA	539628	748055	Children's burial ground	T08	4456

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
370	GA042-226—	POLLNAHALLIA	533597	747871	Redundant record	T02	4458
371	GA043-092—	GLENNAFOSHA, RUSHEENS NORTH	539864	747984	Earthwork	T08	4467
372	GA056-006—	BALLINDUFF (Clare By.)	530436	741863	House - 18th/19th century	T01	4468
373	GA056-014—	BALLYDONNELL AN	530296	742475	Ringfort - unclassified	T01	4472
374	GA057-174—	BALLYBANAGHE R	542737	743438	Chapel	T08	4474
375	GA043-130—	TOBERMINA	536515	748874	Designed landscape - tree- ring	T04	4479
376	GA043-073—	CUMMER	541013	747359	Crannog	T08	4482
377	GA042-065—	CALTRAGH (Killower ED)	534667	748463	Enclosure	T04	4503
378	GA042-142—	GORTNAPORIA	531929	746709	Earthwork	T02	4515
379	GA042-142001-	GORTNAPORIA	531929	746709	Souterrain	T02	4515
380	GA043-105001-	KNOCKACARRI GEEN	538146	748638	Ringfort - rath	T04	4515



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
381	GA056-051—	CASTLECREEVY	532784	739046	Redundant record	T01	4524
382	GA043-111—	KNOCKACARRI GEEN	537754	748784	House - indeterminate date	T04	4537
383	GA043-106—	KNOCKACARRI GEEN	537948	748762	Ringfort - rath	T04	4570
384	GA043-107—	KNOCKACARRI GEEN	537890	748790	Ringfort - rath	T04	4580
385	GA043-033006-	CARROWNT EMPLE (Clare By.), KNOCKACARRI GEEN,POLLATUR K OR NEWGARDEN	537801	748825	Hillfort	T04	4589
386	GA042-032—	BOHERCUILL	532361	747276	Ringfort - rath	T02	4610
387	GA042-032001-	BOHERCUILL	532360	747276	House - indeterminate date	T02	4610
388	GA043-118—	RUSHEENS NORTH	540274	747964	Enclosure	T08	4610
389	GA056-004—	BALLINDUFF (Clare By.)	530231	742075	Designed landscape feature	T01	4611

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
390	GA043-033002-	CARROWNTEMPLE (Clare By.), KNOCKACARRIGEEN,POLLATURK OR NEWGARDEN	537790	748856	Ringfort - cashel	T04	4616
391	GA043-033003-	POLLATURK OR NEWGARDEN	537790	748856	House - indeterminate date	T04	4616
392	GA043-033004-	POLLATURK OR NEWGARDEN	537790	748856	House - indeterminate date	T04	4616
393	GA043-033001-	CARROWNTEMPLE (Clare By.), KNOCKACARRIGEEN,POLLATURK OR NEWGARDEN	537779	748863	Cairn - unclassified	T04	4620
394	GA043-091—	GLENNAFOSHA	539648	748225	Redundant record	T08	4625
395	GA043-033005-	CARROWNTEMPLE (Clare By.)	537787	748875	Cairn - unclassified	T04	4634
396	GA056-116—	MAUSREVAGH	530090	743434	Enclosure	T01	4639
397	GA069-010—	CASTLECREEVY	532723	738924	Castle - unclassified	T01	4660

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
398	GA043-024—	CARROWBEG SOUTH (Claretuam ED)	536904	749050	Children's burial ground	T04	4664
399	GA057-087—	CORRANDRUM	539824	739406	Cist	T08	4666
400	GA042-035—	BOHERCUILL	532130	747148	Redundant record	T02	4670
401	GA042-093—	CAVE (Clare By.)	533983	748294	Cairn - burial cairn	T04	4694
402	GA042-093001-	CAVE (Clare By.)	533983	748294	Cist	T04	4694
403	GA057-142—	SLIEVEFIN	538789	739030	Enclosure	T07	4705
404	GA056-012—	BALLYDONNELLAN	530036	742635	Ringfort - unclassified	T01	4710
405	GA056-117—	MAUSREVAGH	530010	743270	Ringfort - unclassified	T01	4711
406	GA043-032001-	CARROWNTemple (Clare By.)	537687	748989	Children's burial ground	T04	4720
407	GA043-032—	CARROWNTemple (Clare By.)	537696	748994	Ringfort - rath	T04	4727
408	GA070-034—	CARTRON (ED Annaghdown),SLIEVEFIN	536713	738697	Ringfort - unclassified	T03	4758

MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
409	GA070-034001-	SLIEVEFIN	536713	738697	Souterrain	T03	4758
410	GA043-112—	KNOCKACARRI GEEN	538224	748874	Field system	T04	4764
411	GA056-146—	AN MÁS	531727	739428	Enclosure	T01	4764
412	GA042-034—	BOHERCUILL	532028	747186	Watchtower	T02	4768
413	GA042-070—	CALTRAGH (Killower ED)	534545	748714	Cist	T04	4782
414	GA069-009—	CARTRON (ED Annaghdown)	536126	738504	Redundant record	T01	4840
415	GA042-092001-	CAVE (Clare By.)	534034	748505	Souterrain	T04	4844
416	GA042-092—	CAVE (Clare By.)	534042	748520	Ringfort - cashel	T04	4852
417	GA042-158—	KILWULLAUN	532725	747884	Ringfort - cashel	T02	4881
418	GA042-158001-	KILWULLAUN	532725	747884	Souterrain	T02	4881
419	GA042-158002-	KILWULLAUN	532724	747885	Children's burial ground	T02	4882
420	GA042-158003-	KILWULLAUN	532724	747886	House - indeterminate date	T02	4883
421	GA042-085—	CASTLEHACKET	535666	749229	Castle - hall-house	T04	4922



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
422	GA042-085001-	CASTLEHACKET	535666	749231	Bawn	T04	4924
423	GA042-085002-	CASTLEHACKET	535705	749242	Well	T04	4928
424	GA042-012—	BALLYBAUN (Clare By.)	530549	745762	Ringfort - cashel	T01	4928
425	GA057-023—	ARDSKEA MORE	542788	741814	Redundant record	T08	4931
426	GA043-114004-	POLLATURK OR NEWGARDEN	537984	749138	Redundant record	T04	4940
427	GA056-110—	LUIMNAGH WEST	529846	742266	Ringfort - unclassified	T01	4950
428	GA056-110001-	LUIMNAGH WEST	529846	742266	Children's burial ground	T01	4950
429	GA043-114002-	POLLATURK OR NEWGARDEN	537969	749166	Graveyard	T04	4963
430	GA043-114001-	POLLATURK OR NEWGARDEN	537975	749165	Church	T04	4964
431	GA057-083—	CORBALLY SOUTH	540724	739486	Souterrain	T08	4966
432	GA042-107—	CROSSURSA	531018	746478	Well	T01	4987



MAP ID	SMR	TD.	ITM E	ITM N	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)
433	GA042-013—	BALLYBAUN (Clare By.)	530563	745901	Redundant record	T01	4992
434	GA042-086—	CASTLEHACKET	535085	749154	Enclosure	T04	4993
435	GA056-046—	CALTRAGH (Killeany ED)	530020	744833	Mound	T01	4996

### 13.3.3.5.1 *The Prehistoric Period*

The prehistoric period is represented by a relatively low number of monuments (29) including ring barrows and unclassified barrows (5), cairns (12), fulacht fia (5), hillforts (2), cist (3), an anomalous stone group (1) and a megalithic structure (1).

Various types of barrow are known in the archaeological record and include bowl barrows, mound barrows, ring barrows and ditch barrows. Ring Barrows are a circular or oval raised area (generally up to 1m above the external ground level or level with it) enclosed by fosse(s) and outer bank(s), with or without an entrance. They are part of the Bronze/Iron Age burial tradition (c. 2400 BC - AD 400).

Various types of cairn also exist in the archaeological record including burial cairns, unclassified cairns and roadside cairns. Burial cairns consist of a mound constructed primarily of stone which covers a burial or burials. The term cairn is derived from the Irish work 'carn' meaning a heap or pile of stones. They can date to any period from prehistory onwards.

Hillforts comprise a large enclosed area that is more than 1 hectare in size (diam. c. 110m), and usually encompassing between 2 and 22 hectares (diam. exceeding c. 160m). Hillforts are always located in high upland terrain – on top of, or on the spur or ridge of a hill or mountain, or on hills which, if not high, are very prominent locally. They are defined by an earthen or earth and stone bank/banks or a wall/walls and external fosse/fosses and can be circular, oval or more irregularly shaped in plan if following the contours of a hilltop. In the case of bivallate or multivallate examples, the banks are often widely spaced. They may have been important ceremonial tribal centres and/or permanent or temporary settlements. Some examples date from the Early Neolithic (c. 3600 BC), others from the Middle to Late Bronze Age (c. 1400-500 BC) with examples of reoccupation in the later Iron Age (c. 100-400 AD). Both hillforts located within the 5km study area are located in excess of 4km from the nearest proposed turbine (T4 and T2).

Fulacht fia comprise a horseshoe-shaped or kidney-shaped mound consisting of fire-cracked stone and charcoal-enriched soil built up around a sunken trough located near or adjacent to a water supply, such as a stream or spring, or in wet marshy areas. The first recorded use of the Irish term 'fulacht fiadh/fia' (cooking pit of the deer or of the wild) as relating to ancient cooking sites was in the 17th century. These are generally interpreted to have been associated with cooking and date primarily to the Bronze Age (c. 2400-500 BC).

The monuments dating to the prehistoric period are located at distances of between 1km-4.7km from the nearest proposed turbine.

### 13.3.3.5.2 *The Early Medieval Period*

The Early Medieval period is represented by enclosures and ringforts (including cashels) and a crannóg which account for 147 of the 435 monuments within 5km of the nearest proposed turbine. Enclosures consist of an area defined by an enclosing element (e.g. bank, wall, fosse, scarp), or indicated as such cartographically, and occurring in a variety of shapes and sizes, possessing no diagnostic features which would allow classification within another monument category. These may date to any period from prehistory onwards. Enclosures with a diameter greater than 70m should be classed as Large Enclosure. Ringforts are a roughly circular or oval area surrounded by an earthen bank with an external fosse. Some examples have two (bivallate) or three (trivallate) banks and fosses, but these are less common and have been equated with higher status sites belonging to upper grades of society. They functioned as residences and/or farmsteads and broadly date from 500 to 1000 AD. Crannógs consist of an island, partly or wholly artificial, built up by dumping timber, earth and stones onto a lake or river bed, often revetted with timber piles or a palisade. Derived from the Irish word 'crannóg'; the Irish word for tree is 'crann' and 'crannóg' principally means a piece of wood or a structure of wood. They date from the 6th to the 17th century AD.

### 13.3.3.5.3 Medieval Period

At least 14 no. monuments within 5km of the nearest proposed turbine may be attributed to the medieval period. They include tower houses, bawns, unclassified castles and a hall house.

Unclassified castles comprise a castle that cannot be more precisely classified. They can date from the late 12th to the 16th century AD.

Hall houses consisted of a building, usually two storeys high with a first-floor entrance, which leads to a single undivided chamber/hall open to the roof and extending the length of the building. They date primarily to the 13th and 14th centuries in Ireland, often continuing to be occupied, in a modified form, throughout the medieval period

Tower houses were a later development, primarily dating to the 15<sup>th</sup> and 16<sup>th</sup> centuries. They comprise a fortified residence in the form of a tower, usually four or five storeys high, and for the most part slightly more rectangular than square in plan. They were constructed by a lord or landholder and were often partially or completely enclosed by a bawn. The majority date to the 15th and 16th centuries AD.

The nearest of the castles and tower houses comprises GA056-043002- at Cahermorris which is located c. 867m from the nearest proposed turbine, T1. It does not comprise an upstanding structure, however, with only a low stony mound extant.

### 13.3.3.5.4 Monuments with Religious Associations

At least 43 no. monuments within 5km of the nearest proposed turbine have religious associations and may date to a number of time periods. The monuments comprise churches, graveyards, burial grounds, burials, ecclesiastical enclosures, children's burial grounds, holy wells, a graveslab and a round tower. Some of these monuments are found near to or in association with each other and the nearest of these comprises a children's burial ground which is situated c. 1km from the nearest proposed turbine, T1.

Holy wells comprise a well or spring, though in some unusual cases a natural rock basin, which usually bears a saint's name and is often reputed to possess miraculous healing properties. These may have their origins in prehistory but are associated with devotions from the medieval period (5th-16th centuries AD) onwards. Holy trees are often found in association with holy wells. They comprise a named tree or bush, sometimes associated with a particular saint, often considered to have miraculous properties. They are generally found in close proximity to holy wells and formed part of the associated patterns or rounds performed on certain days. They are known in Irish as 'bile', which translates as sacred tree, sometimes corrupted into the English words 'bell' or 'bellow'. These may have their origins in prehistory but are associated with devotions from the medieval period (5th-16th centuries AD) onwards.

One ecclesiastical enclosure is located within 5km of the nearest proposed turbine (c. 3.1km from T8). They comprise a large oval or roughly circular area, usually over 50m in diameter, defined by a bank/banks and external fosse/fosses or drystone wall/walls, enclosing an early medieval church or monastery and its associated areas of domestic and industrial activity. They date to the early medieval period (5th-12th centuries AD).

Eight churches, a chapel and a religious house in addition to six graveyards and three burial ground are located within 5km of the nearest proposed turbine. In some cases, the churches and graveyards are found in association with each other. They can be of any date from c. 500 AD onwards. Children's burial grounds, of which there are seventeen, comprise an area of unconsecrated ground for the interment of unbaptised or stillborn children, often known under various Irish names: Cillín, Caldragh, Ceallúnach or Calluragh. The graves were generally marked by simple, low, upright stones or slabs almost invariably without any inscription or other carving. This burial practice may be medieval in origin and continued in Ireland until the 1960s.

### 13.3.3.5.5 **Post Medieval Period**

At least thirty-five monuments which may be attributed to the post-medieval period are located within 5km of the nearest proposed turbine. They include designed landscape features, country houses, quarries, bridges, lime kilns a sweathouse and a corn mill. The nearest of these monuments, GA056-045— country house, is located c. 1.1km from the nearest proposed turbine, T1. Country houses are the rural residence of the landed gentry. They date from the late 17th century to the first half of the 19th century AD.

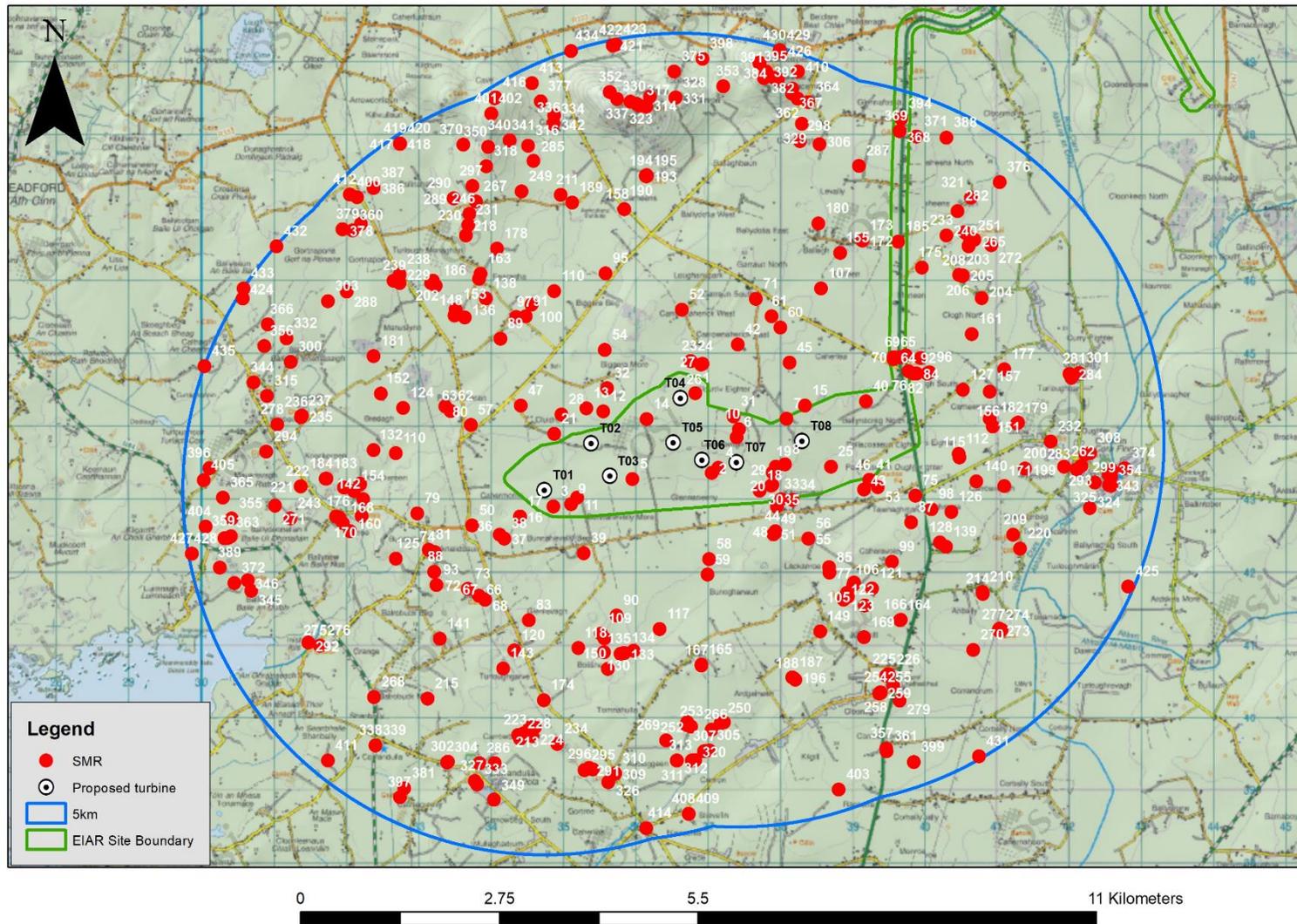


Figure 13-6: Recorded monuments within 5km of the nearest proposed turbine.

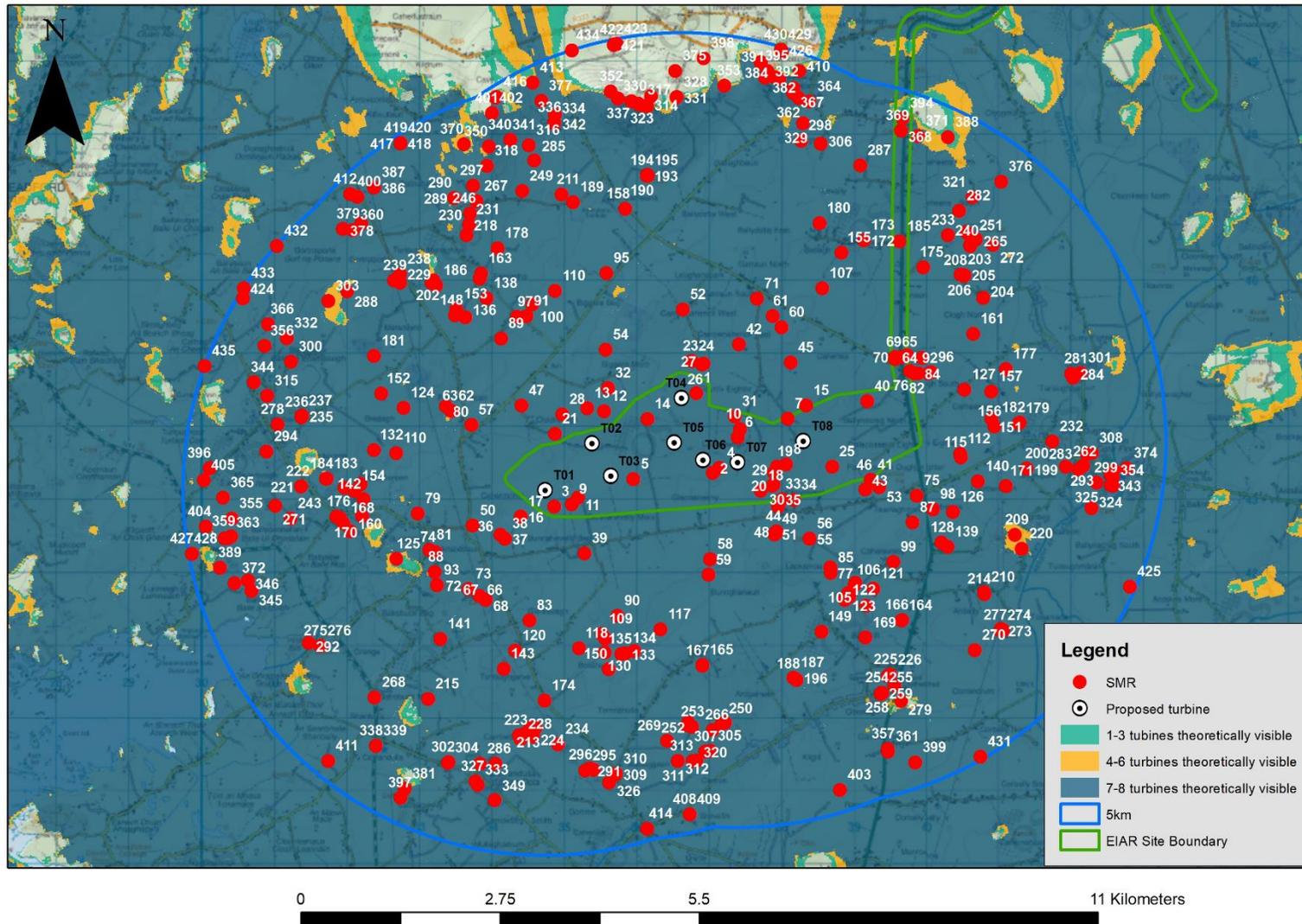


Figure 13-7: Recorded monuments within 5km of the nearest proposed turbine with ZTV.

### 13.3.3.6 Excavations Database

The database of excavations carried out in Ireland ([www.excavations.ie](http://www.excavations.ie)) was consulted for any such licensed work which took place on or adjacent to the Proposed Wind Farm site. No entries were returned.

### 13.3.3.7 Topographical Files of the National Museum of Ireland

The topographical files of the National Museum of Ireland on [www.heritagemaps.ie](http://www.heritagemaps.ie) were consulted for archaeological finds from the townlands within or adjacent to the Proposed Wind Farm site. No finds are recorded within the vicinity of the Proposed Wind Farm site with the nearest shown on [www.heritagemaps.ie](http://www.heritagemaps.ie) being located c. 4km to the south-east and comprising a stone axehead.

### 13.3.3.8 Sub-Surface Archaeological Potential

Due to the extent of groundworks associated with the construction phase of the Proposed Wind Farm, the largely greenfield nature of the Proposed Wind Farm site and the presence of both recorded and previously unrecorded monuments within same, it is possible that previously unrecorded sub-surface archaeological finds, features or deposits are located within the Proposed Wind Farm site. The potential therefore exists that sub-surface archaeological sites or features, if present within the Proposed Wind Farm site, may be directly affected by construction phase activities. Mitigation measures to ameliorate this potential effect are detailed in Section 13.4 below.

### 13.3.3.9 Archaeological Landscapes

Section 12.6.12 of Galway CDP states the following in relation to archaeological landscapes:

*'ARC 3 Archaeological Landscapes To facilitate where possible the identification of important archaeological landscapes in the County.'*

*ARC 4 Protection of Archaeological Sites Protect archaeological sites and monuments their settings and visual amenity and archaeological objects and underwater archaeological sites that are listed in the Record of Monuments and Places, in the ownership/guardianship of the State, or that are subject of Preservation Orders or have been registered in the Register of Historic Monuments, or that are newly discovered and seek to protect important archaeological landscapes.'*

No archaeological landscapes have been formally identified or designated in the CDP.

### 13.3.3.10 Protected Structures within 5km of the nearest proposed turbine

No Protected Structures are located within the Proposed Wind Farm site .

A total of 27 no. protected structures are located within 5km of the nearest proposed turbine. They are shown on Figure 13-9 and listed in Table 13-16. The ZTV shows that the majority of the structures are located in areas where 7-8 turbines will theoretically be visible (Figure 13-10).

The nearest protected structure comprises a thatched structure (Ref. 4003) in Cahermorris, c. 1.1km north-west of T1.

4003	30405608		Detached four-bay single-storey vernacular house, built c.1800, having windbreak to entrance	Once common in the landscape, the traditional thatched house is now becoming increasingly rare. This building retains its simple form and many characteristic features such as the thatched roof and low rendered chimneystack. Bevelled quoin details offer visual interest to the front façade. The boundary wall and outbuildings contribute to the setting of the house.	Tuam	CAHERMORRIS	X:133591 Y:243329	
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Figure 13-8: Extract from Galway CDP RPS showing entry for thatched structure at Cahermorris. (Ref. 4003).

Table 13-6: RPS structures within 5km of the nearest proposed turbine.

RPS ID	NIAH REG.	STRUCTURE	LOCATION	ITM E	ITM N	TURBINE	DISTANCE TO TURBINE (m)
4008	30405619	Thatched structure	BUNATOBER	533075	742296	T01	1846
4005	30405615	Thatched structure	BUNATOBER	533185	742615	T01	1620
3948	30405625	Thatched structure	BALROBUCK BEG	532748	741185	T01	2773
3730	30406901	Thatched structure	CASTLECREEVY	532839	738907	T01	4627
72	30405611	Church	Corrandulla	533755	739145	T01	4105
76	30405614	Mill house	Bunatober	532675	742175	T01	2259
821	0	Thatched structure	Balroebuckbeg	532864	741205	T01	2677
73	30405612	Monastery	Corrandulla	533814	739075	T01	4160
4002	30405606	Thatched structure	CLUIDREVAGH	533528	743795	T01	1361
4003	30405608	Thatched structure	CAHERMORRIS	533555	743353	T01	1184
3946	30405623	Thatched structure	BALROBUCK BEG	532414	741102	T01	3073
77	30405622	Mill race	Ballinaduff	531475	741034	T01	3865
78	30405621	Mill house	Ballinaduff	531435	741065	T01	3882
75	30405634	Thatched structure	Corrandulla	533355	739325	T01	4047

RPS ID	NIAH REG.	STRUCTURE	LOCATION	ITM E	ITM N	TURBINE	DISTANCE TO TURBINE (m)
74	0	Thatched structure	Corrandulla	533504	739315	T01	4009
4001	30405605	Thatched structure	CLUIDREVAGH	534110	744291	T01	1306
3947	30405624	Thatched structure	BALROBUCK	532706	741223	T01	2776
3945	30405620	Thatched structure	BALROBUCK BEG	532858	741769	T01	2308
4006	30405616	Thatched structure	BUNATOBER	533234	742587	T01	1583
3729	30406902	Thatched structure	CASTLECREEVY	533009	738753	T01	4704
4004	30405613	Thatched structure	BUNATOBER	532509	742496	T01	2301
4000	30405604	School	BIGGERA BEG	534938	745204	T02	1488
4504		House		535058	745705	T02	1952
3997	30404220	Thatched structure	CARHEENS	535695	746722	T04	2496
80	30405704	Gate lodge	Tuam	542732	743474	T08	4467
79	30405703	Church	Corrofin	542736	743477	T08	4470
3909	30405702	Bridge	TURLOUGHMARTIN	542611	743416	T08	4350

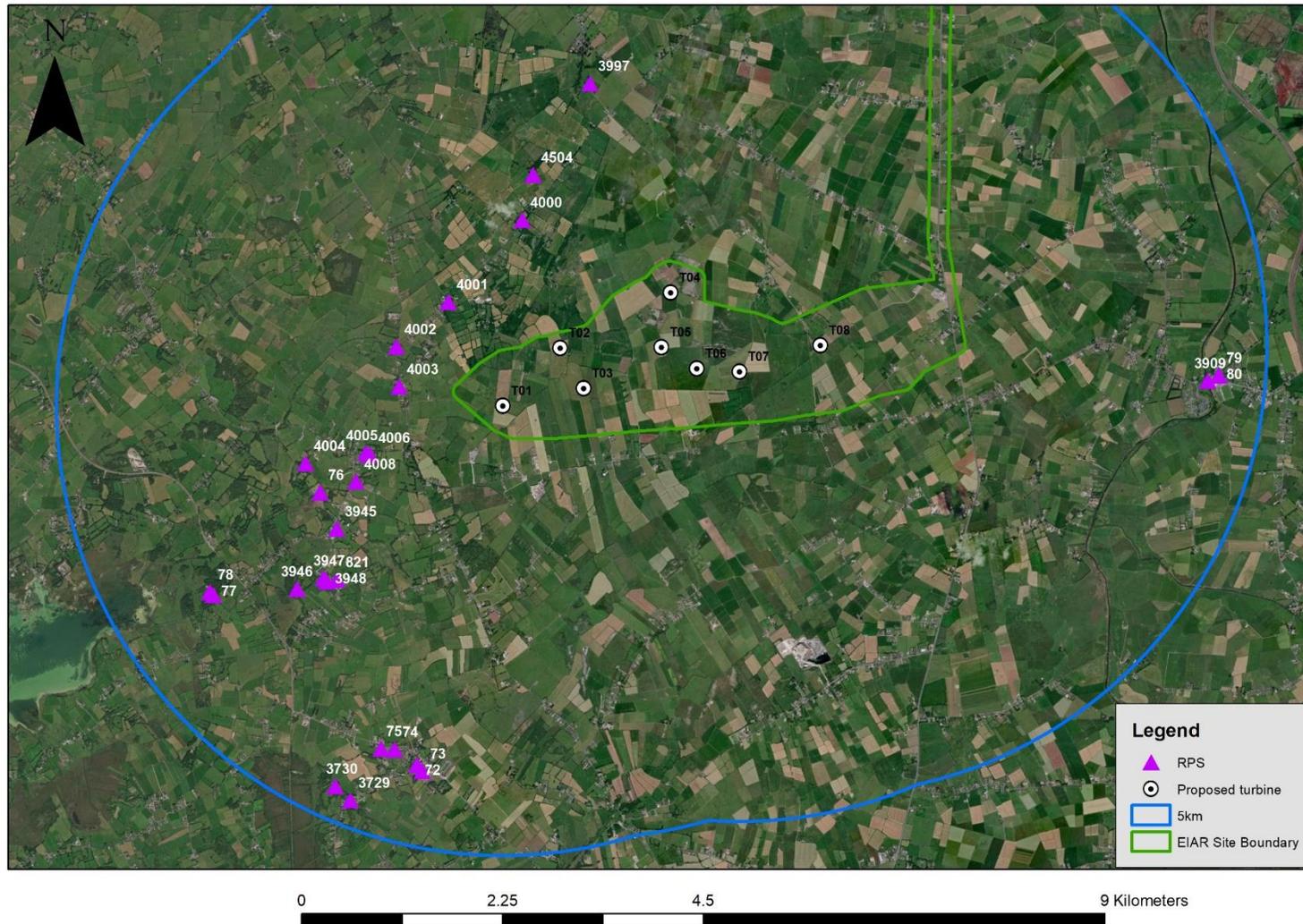


Figure 13-9: Protected structures within 5km of the nearest proposed turbine.

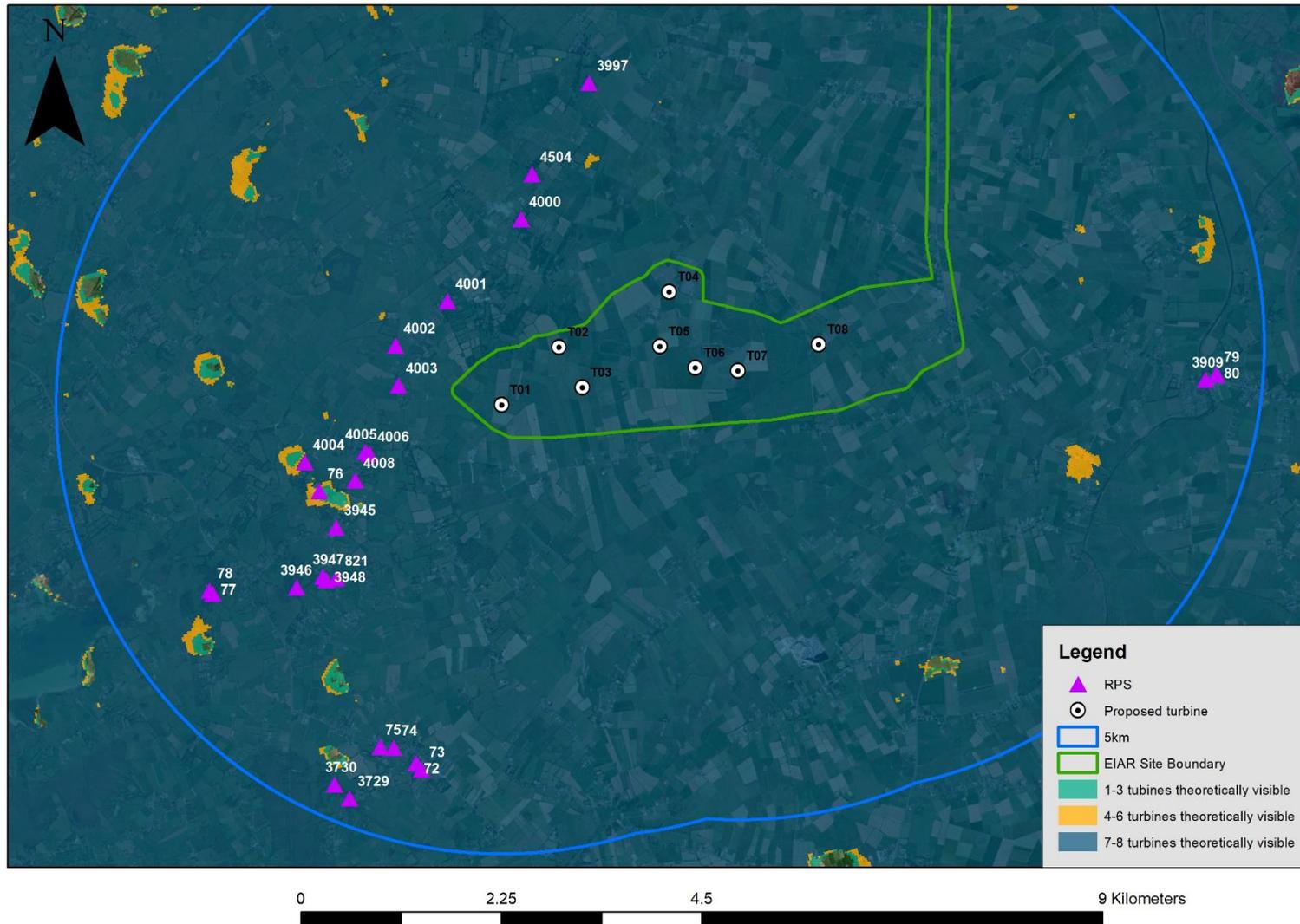


Figure 13-10: Protected structures within 5km of the nearest proposed turbine with ZTV.

### 13.3.3.11 NIAH Structures and Historic Gardens within 5km of the nearest proposed turbine

No NIAH structures are located within the Proposed Wind Farm site.

Twenty-nine structures listed in the NIAH are located within 5km of the nearest proposed turbine, many of which are also listed in the RPS (see Section 13.3.3.10 above). They are listed in Table 13-7 and shown in Figure 13-11 below. The nearest structure is situated c. 1.1km to the north-west of the nearest proposed turbine, T1, and comprises a thatched house (Reg. 30405608) which is also a protected structure (Ref. 4003). The remaining structures are all located in excess of 1.2km up to 4.8km from the nearest proposed turbine. The ZTV demonstrates theoretical visibility of the majority of the NIAH structures (Figure 13-12).

Six historic gardens are located within 5km of the nearest proposed turbine (Table 13-8, Figure 13-12). Some of these are associated with the NIAH structures listed in Table 13-7, while others may have no surviving associated structures. Similarly, in some instances there may be no surviving garden features. The nearest historic garden comprises that associated with Cahermorris House, c. 1km from the nearest proposed turbine, T1. The Proposed Wind Farm site is not located within the demesne associated with Cahermorris House which is situated just outside the EIAR Site Boundary.

Table 13-7: NIAH sites within 5km of the nearest proposed turbine.

NIAH Reg.	Date	Structure]	Townland	ITM E	ITM N	Turbine No.	Distance To Turbine (m)
30405608	1780 - 1820	house	CAHERMORRIS	533546	743385	T01	1199
30405617	1870 - 1890	demesne walls/gates/railings	CAHERMORRIS	533616	742637	T01	1210
30405605	1780 - 1820	house	CLUIDREVAGH	534089	744285	T01	1312
30405606	1780 - 1820	house	CLUIDREVAGH	533528	743803	T01	1366
30405604	1840 - 1850	school	BIGGERA BEG	534939	745206	T02	1491
30405616	1780 - 1820	house	BUNATOBBER	533235	742597	T01	1578
30405615	1780 - 1820	house	BUNATOBBER	533189	742624	T01	1613
30405619	1780 - 1820	house	BUNATOBBER	533074	742324	T01	1834
30404303	1780 - 1820	house	GARRAUN SOUTH (CLARE BY)	537196	746139	T04	1842
30405614	1820 - 1840	mill manager's house	BUNATOBBER	532699	742180	T01	2235
30405613	1780 - 1820	house	BUNATOBBER	532502	742507	T01	2304
30405620	1780 - 1820	house	BALROBUCK BEG	532849	741760	T01	2321
30404220	1780 - 1820	house	CARHEENS	535651	746708	T04	2499
30405625	1780 - 1820	house	BALROBUCK BEG	532746	741193	T01	2768

NIAH Reg.	Date	Structure]	Townland	ITM E	ITM N	Turbine No.	Distance To Turbine (m)
30405624	1780 - 1820	house	BALROBUCK BEG	532708	741230	T01	2770
30405623	1780 - 1820	house	BALROBUCK BEG	532425	741112	T01	3059
30405626	1780 - 1820	house	BALROBUCK MORE	532523	740764	T01	3231
30405627	1780 - 1820	house	BALROBUCK MORE	532495	740712	T01	3289
30405622	1780 - 1800	mill (water)	GRANGE (ED ANNAGHDOWN)	531460	741049	T01	3869
30405621	1830 - 1840	millers' house	INISH	531439	741076	T01	3872
30405634	1780 - 1820	house	CASTLECREEVY	533364	739334	T01	4036
30405611	1830 - 1835	church/chapel	CARROWBEG SOUTH (ED LISCANANAUN)	533759	739149	T01	4100
30405612	1840 - 1860	monastery	CARROWBEG SOUTH (ED LISCANANAUN)	533827	739083	T01	4149
30405632	1780 - 1820	house	SHANBALLY (CLARE BY)	532188	739830	T01	4163
30405702	1650 - 1850	bridge	CORROFIN,TURLOUGHMARTIN	542601	743414	T08	4341
30405703	1840 - 1845	church/chapel	BALLYBANAGHER	542735	743481	T08	4469
30406901	1780 - 1820	house	CASTLECREEVY	532855	738895	T01	4632
30406902	1780 - 1820	house	CASTLECREEVY	533011	738747	T01	4709



NIAH Reg.	Date	Structure]	Townland	ITM E	ITM N	Turbine No.	Distance To Turbine (m)
30405628	1780 - 1820	house	ANNAGH EAST	530703	740340	T01	4893

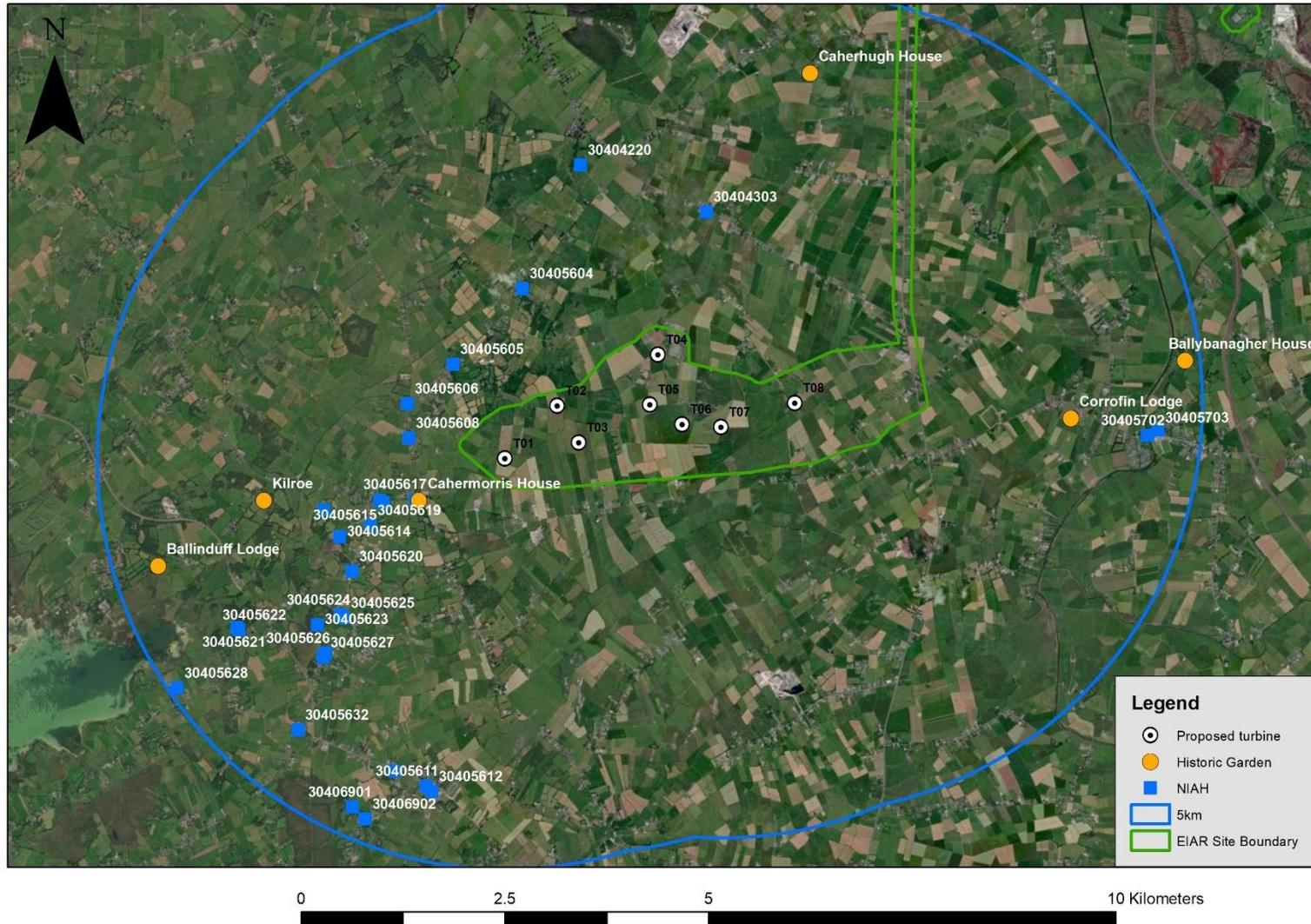


Figure 13-11: NIAH structures and historic gardens within 5km of the nearest proposed turbine.

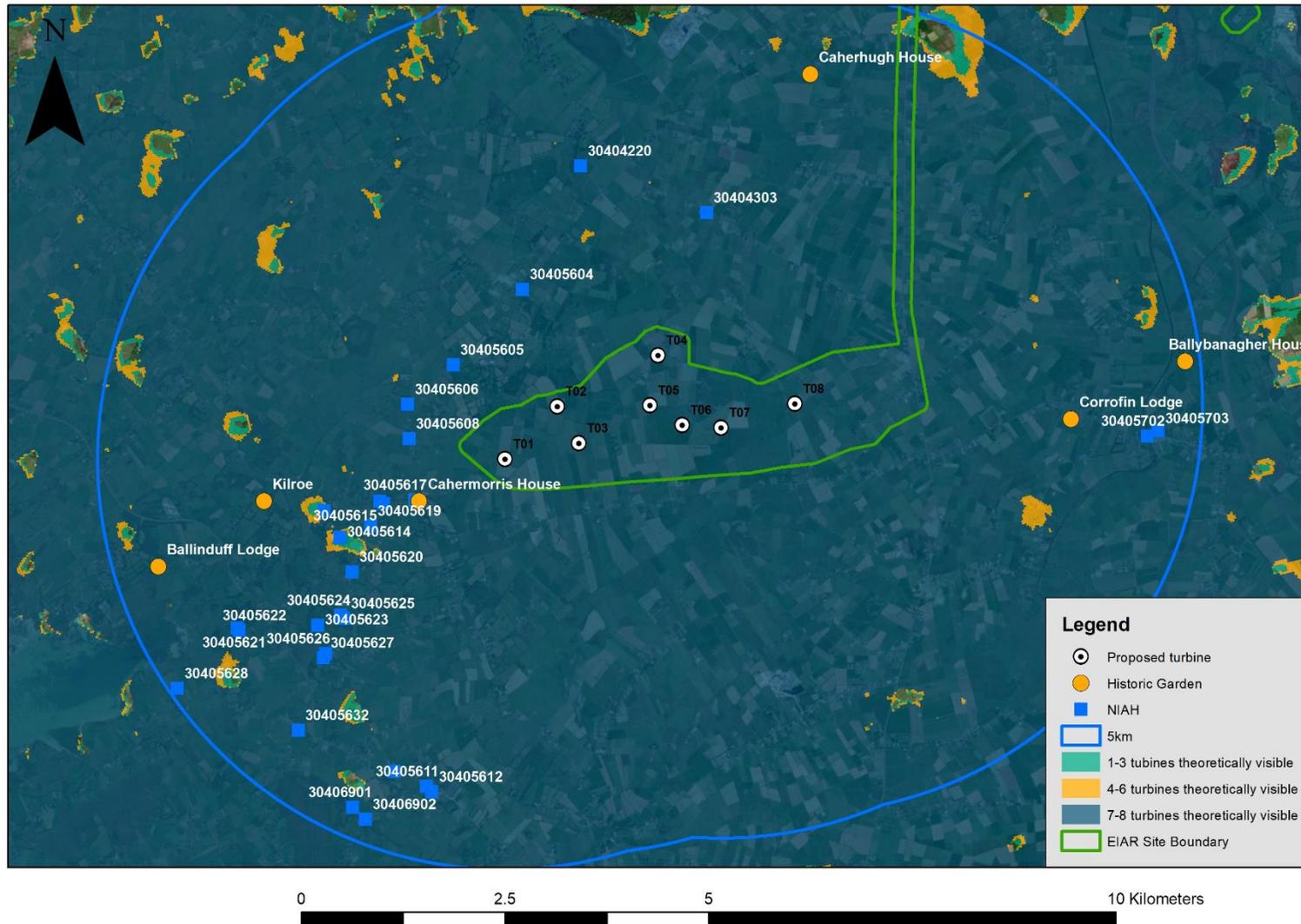


Figure 13-12: NIAH structures, and historic gardens within 5km of the nearest proposed turbine and ZTV.

Table 13-8: Historic gardens located within 5km of the nearest proposed turbine.

Site Name	ITM E	ITM N	Turbine No.	Distance To Turbine (m)
Cahermorris House	533665	742625	T01	1171
Kilroe	531765	742625	T01	2998
Corrofin Lodge	541663	743625	T08	3390
Caherhugh House	538464	747824	T04	3902
Ballinduff Lodge	530465	741825	T01	4451
Ballybanagher House	543063	744325	T08	4813

### 13.3.3.12 Cartographic Evidence and Local Cultural Heritage

The available historic Ordnance Survey maps were consulted for any items of cultural heritage merit that may be located within the Proposed Wind Farm site. Field survey also assisted in determining if any local cultural heritage features were located in the vicinity of any Proposed Wind Farm infrastructure.

The Ordnance Survey came to Ireland in 1824 in order to carry-out a precise admeasurement of the country's 60,000 or so townlands as a preliminary to the larger task of reforming Ireland's local taxation system. The townland boundaries were demarcated by a Boundary Commission, and the Ordnance Survey had the task of measuring them. In addition to boundaries the maps are truly topographical in content. Drawn at the large scale of six inches-to-one-mile (1:10,560) it was important to mark all buildings, roads, streams, placenames, etc, that were required for valuation purposes. Ultimately the maps were used as a basis for the rateable valuation of land and buildings in what became known as Griffith's Valuation. Working from north to south, the survey began in Antrim and Derry in 1829 and was completed in Kerry in 1842. It was published as thirty-two county maps between 1832 and 1846, the number of sheets per county varied from 153 for County Cork to 28 for Dublin, each of the 1,994 sheets in the series depicting an area 21,000 by 32,000 feet on the ground. Each county was projected on a different central meridian and so the maps of adjacent counties do not fit neatly together at the edges. Map content stops at the county lines.

The early Ordnance Survey maps are an unrivalled source for the period immediately before the Great Irish Famine (1847-50) when the population was at the highest level ever recorded in Ireland. The first edition map (1829-41) for the area of the Site shows it being divided into fields for agricultural purposes. Consequently, some small structures are depicted within the Proposed Wind Farm site and are likely to have been small settlements. Other features denoted within the Proposed Wind Farm site comprise lime kilns, which would have been associated with agricultural practices of the 19<sup>th</sup> century. The Proposed Wind Farm site currently largely comprises intensively farmed improved pasture and rough pasture. No surface trace of any structures or lime kilns denoted on the first edition historic mapping were visible at the time of field survey for this assessment. It is likely that modern agricultural practices and land improvement has resulted in the removal of these features some time in the late 19<sup>th</sup> or early 20<sup>th</sup> century.

No potential archaeological features or items of potential cultural heritage merit are indicted on the first or second edition OS maps. On both editions field divisions are shown with some associated settlements. One such settlement cluster and associated fields are depicted in the area of T6 and south of same. No evidence for those field enclosures or settlement structures were apparent on the ground during the walk-over survey.

### 13.3.3.13 Townlands and administrative boundaries

Townlands and administrative boundaries may indicate the presence of archaeological features within a development site. Administrative counties are subdivisions of pre-established counties which were formed for administrative purposes in the nineteenth and twentieth centuries. Baronies are administrative units larger than civil parishes and originally established as the primary subdivision of counties by the British administration in Ireland. Irish baronies which were formed at the time of the Norman conquest were usually named either after Irish territories, or from places which had been of importance in pre-Norman times. Irish baronies came into existence at different periods. The division of Ireland into counties and baronies was a process which continued down to the reign of James I. The original baronies in Ireland were the domains of the Norman barons; in the final stage of development they were divisions of counties created merely for greater convenience of administration. The word barony is of feudal origin, and was applied to a tenure of a baron, that is, of one who held his land by military service, either directly from the king, or from a superior feudal lord who exercised royal privileges. The origin of the Irish barony (a division of land corresponding to the English hundred) is to be found in the grants of lands which were made to the barons of Leinster and the barons of Meath (Liam Price, 'Ráith Oinn', Éigse VII, lch. 186-7). Civil parishes are administrative units larger than townlands and based on medieval ecclesiastical parishes. Civil parishes, modern Catholic parishes and Church of Ireland parishes may differ in extent and in nomenclature. Counties are administrative units larger than baronies and originally established by the British administration in Ireland between the twelfth and the seventeenth centuries. Some of these were subsequently subdivided into smaller administrative county units.

Townlands are the smallest land units which were determined and established in the Irish administrative system in the first half of the nineteenth century. Many of the townlands were in existence prior to that. As the Proposed Wind Farm site is located across a number of townlands, townland boundaries between same are also present. Proposed Wind Farm infrastructure crosses the townland boundaries in a number of places. For example, the proposed road which extends to T1 crosses the boundary between Cahermorris townland and Cluidrevagh townland. Similarly, the road to T3 crosses the townland boundary between Cluidrevagh and Bunnahevelly More. The proposed road to T8 also crosses the boundary between Laurclavagh and Kilcurriv Eighter and also between the latter and Kilcurrivard. In the majority of cases the townland boundaries comprise stone field boundaries which continue to act as field divisions.

Townland names are a valuable source of information, not only on the topography, land ownership and land use within the landscape, but also on its history, archaeological monuments and folklore. Logainm.ie was utilised to ascertain the origin of the townland names within the Proposed Wind Farm site (Table 13-9)).

Table 13-9: Townlands within the Site and their meanings.

Townland	Logainm Meaning
CAHERMORRIS	The stone ringfort of Muiris
BUNNAHEVELLY MORE	The low ground of the apple tree
BUNNAHEVELLY BEG	The low ground of the apple tree
CLUIDREVAGH	The streaked corner
BIGGERA MORE	Furrow
KILCURRIV EIGHTER	Church of Corbh

Townland	Logainm Meaning
LAURCLAVAGH	The mangy place
GLENNANEENY	The glen of the assembly
KILCURRIVARD	Church of Corbh
BALLYNACREG NORTH	The town of the rock
POLLACOSSAUN EIGHTER	The hole, pool of the path
POLLACOSSAUN OUGHTER	The hole, pool of the path

### 13.3.4 Proposed Grid Connection

The Proposed Grid Connection encompasses the proposed onsite 110kV substation, temporary construction compound, c. 14.3km of underground cable route and supporting infrastructure within the EIAR Site Boundary. The Proposed Wind Farm will connect to the proposed onsite 110kV substation, which will connect to the existing 110kV Cloon Substation via a 14.3km long underground cabling route. The Cloon 110kV Substation is located in the townland of Cloonascragh approximately 6km northeast of the Proposed Wind Farm site (straight line distance).

Cultural heritage assets within 100m of either side of the Proposed Grid Connection underground cabling route outside the Proposed Wind Farm site are included in the assessment in order to ascertain any potential effects and any required mitigation measures to alleviate or minimise such effects if identified. A photographic record of the Proposed Grid Connection underground cabling route is presented in Appendix 13-1. Due to the nature of the proposed works associated with the Proposed Grid Connection underground cabling route, a 100m study area either side of the route is considered appropriate for the assessment of potential effects.

#### 13.3.4.1 National Monuments

No National Monuments in State Care or those subject to a preservation order are located within 100m of the Proposed Grid Connection underground cabling route, or in the footprint of the proposed onsite 110kV substation and its associated temporary construction compound.

#### 13.3.4.2 Recorded Monuments

Thirteen recorded monuments are located within 100m of the Proposed Grid Connection underground cabling route, while none are located in the footprint of the proposed onsite 110kV substation or associated temporary construction compound. The monuments within 100m of the proposed underground cabling route are listed in Table 13-10 and shown on Figure 13-13, as well as Figures 13-14 to 13-16 below. Many of the monuments occur in association with each other e.g. ringforts and souterrains or houses. Descriptions as provided on the HEV are presented below.

Table 13-10: Recorded monuments within 100m of the proposed underground cabling route.

SMR	TOWNLAND	TYPE	ITM E	ITM N	Distance To UGC (m)
GA043-068—	CULLEEN	539609	746539	Redundant record	6

SMR	TOWNLAND	TYPE	ITM E	ITM N	Distance To UGC (m)
GA043-091—	GLENNAFOSHA	539648	748225	Redundant record	17
GA043-039—	CLARETUAM	540003	749623	Castle - unclassified	20
GA043-088—	GLENNAFOSHA	539628	748055	Ringfort - rath	27
GA043-088001-	GLENNAFOSHA	539628	748055	Children's burial ground	27
GA057-102—	CUMMER	539630	744959	House - indeterminate date	33
GA057-134—	MONEEN (Clare By.)	539555	744947	Ringfort - rath	43
GA057-134002-	MONEEN (Clare By.)	539546	744929	House - indeterminate date	53
GA057-134001-	MONEEN (Clare By.)	539542	744959	Souterrain	55
GA057-134003-	MONEEN (Clare By.)	539542	744958	House - indeterminate date	55
GA043-089001-	GLENNAFOSHA	539747	748816	Children's burial ground	69
GA043-089002-	GLENNAFOSHA	539747	748816	Souterrain	69
GA043-089—	GLENNAFOSHA	539748	748814	Ringfort - rath	70

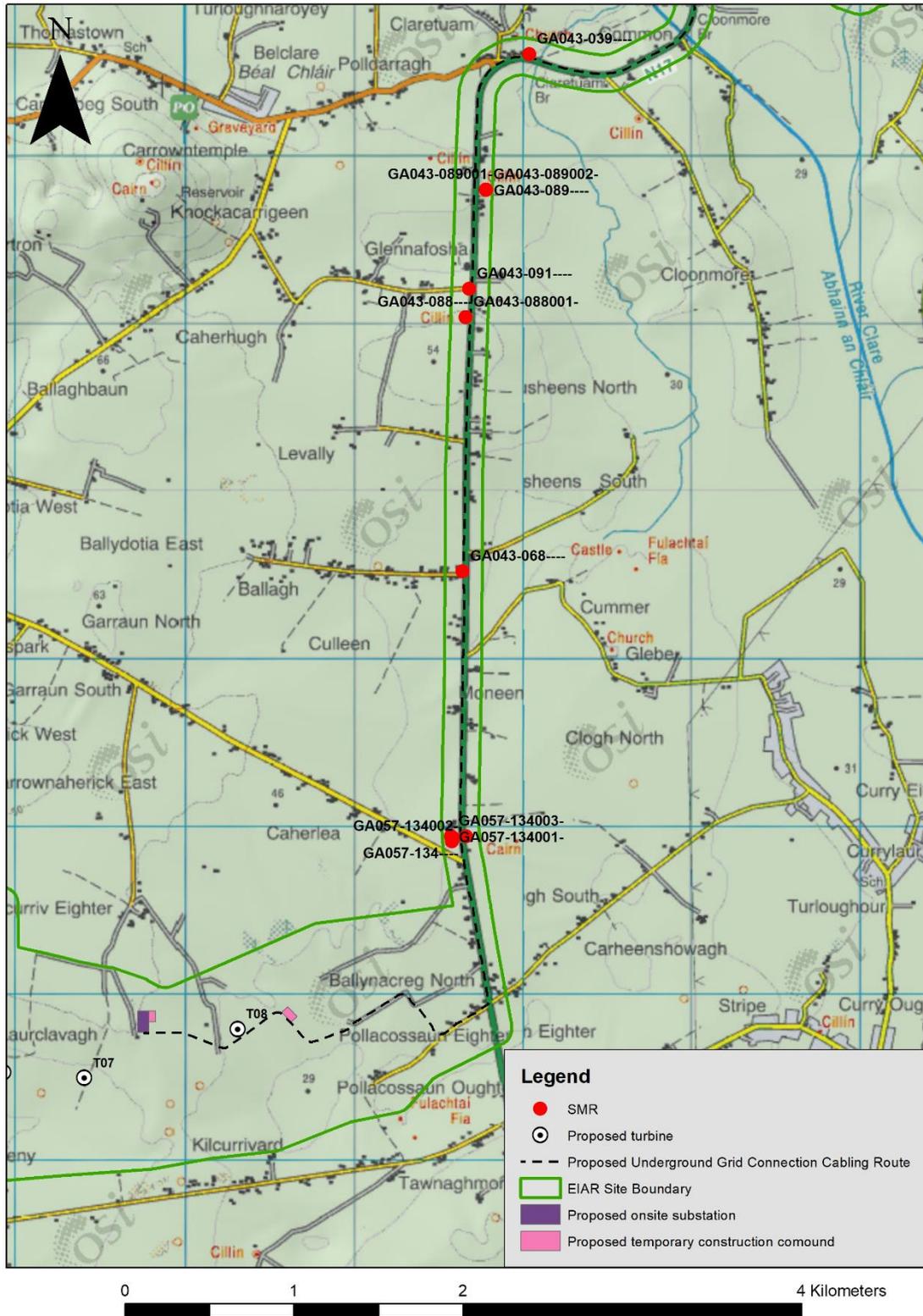


Figure 13-13: Recorded monuments within 100m of the proposed underground cabling route.

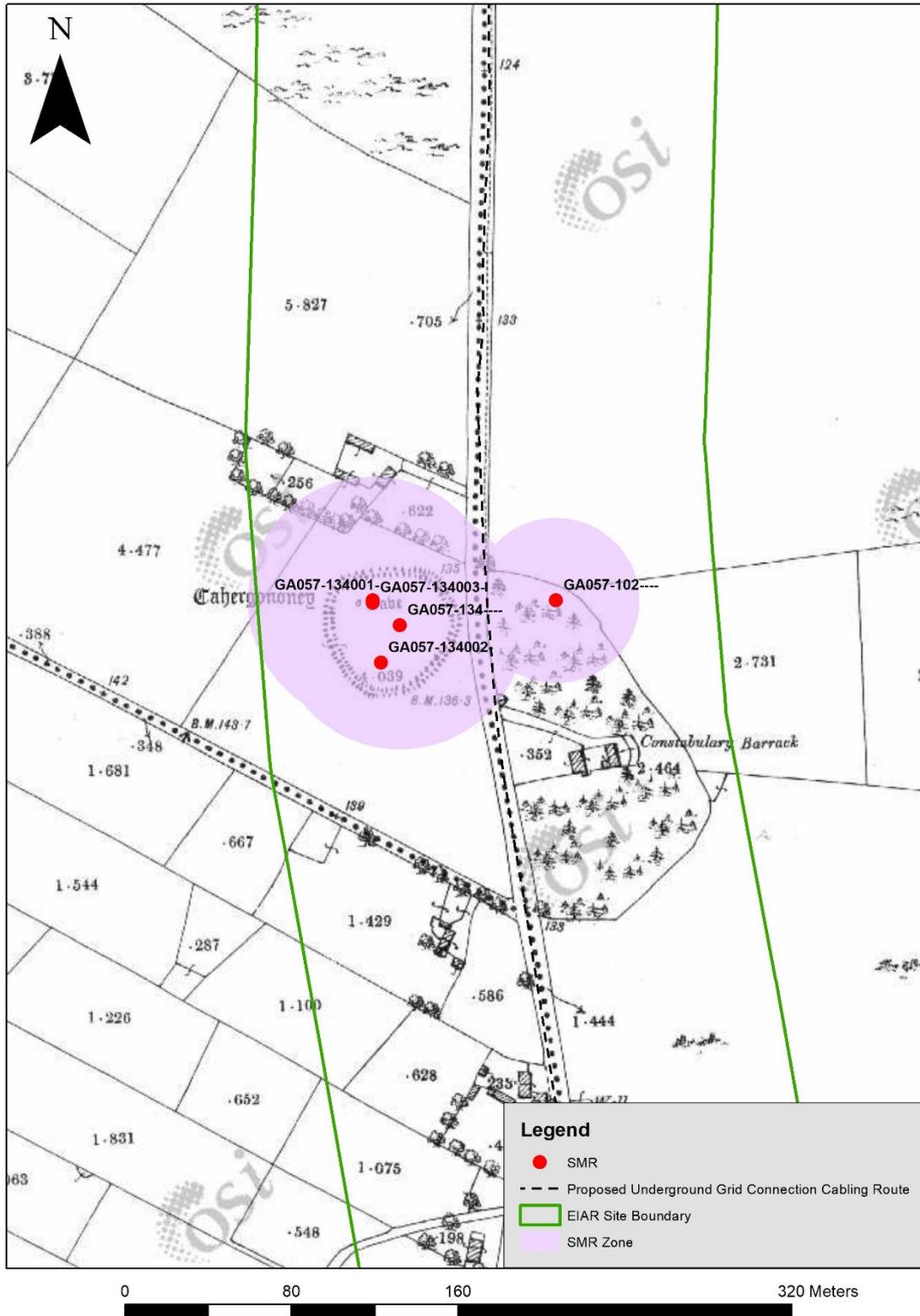


Figure 13-14: Ringfort GA057-134— and associated monuments as depicted on 2<sup>nd</sup> edition OS map in relation to proposed underground cabling route.

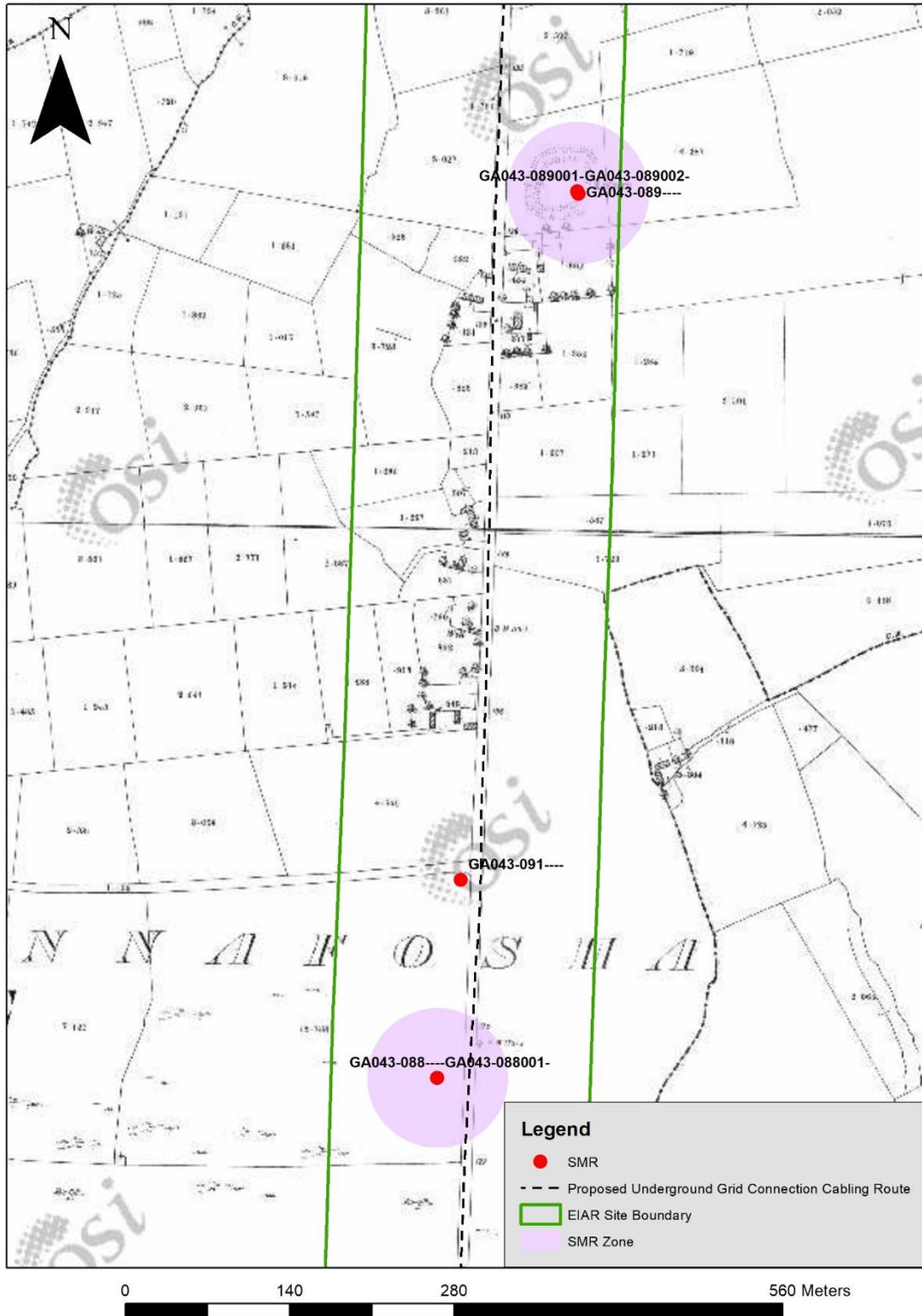


Figure 13-15: Ringfort GA043-089— as depicted on 2<sup>nd</sup> edition OS map in relation to proposed underground cabling route.

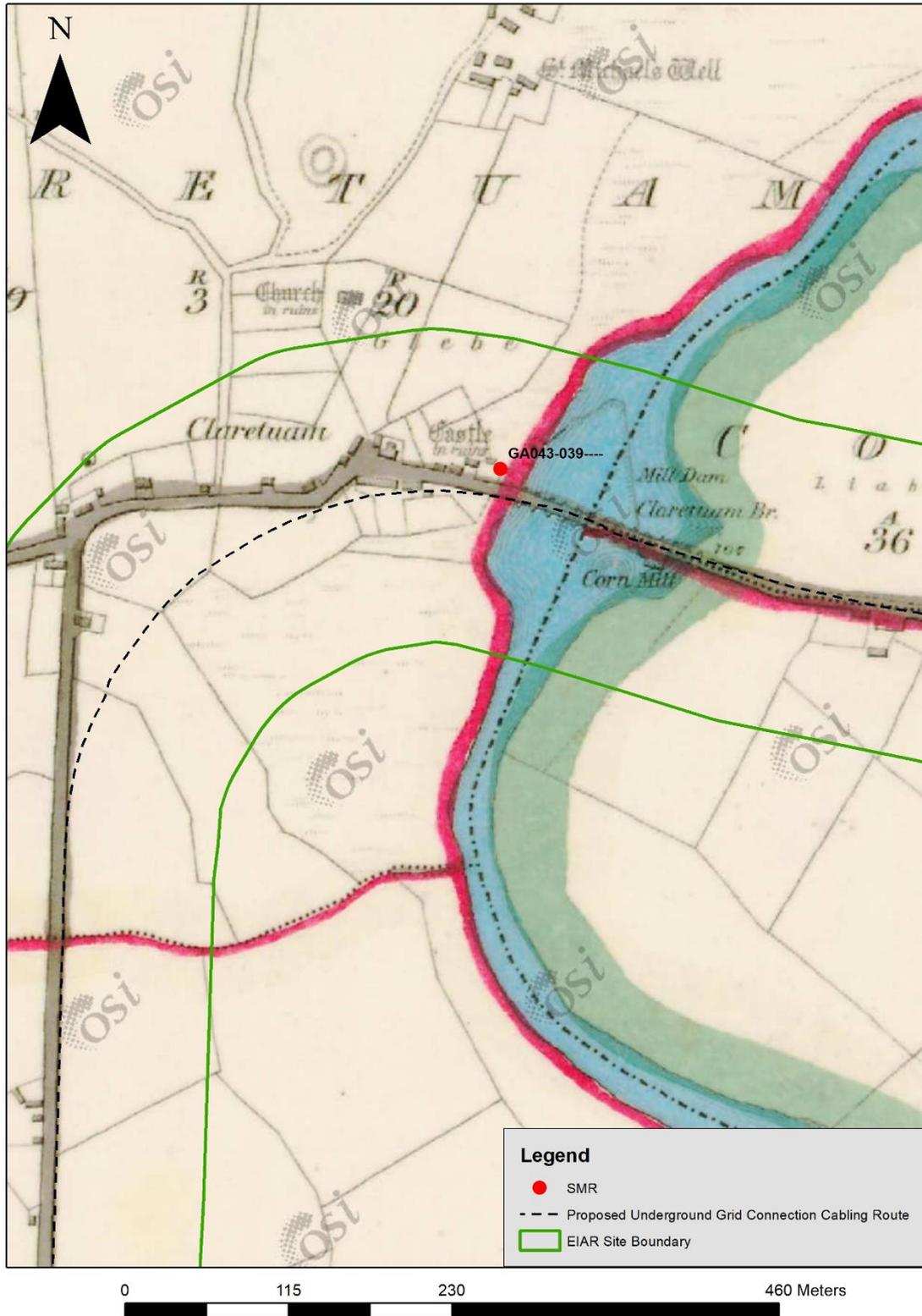


Figure 13-16: Castle GA043-039— as depicted on 1<sup>st</sup> edition OS map in relation to proposed underground cabling route.

13.3.4.2.1 **GA043-068----- : Redundant record : CULLEEN**

*Description: This is a natural depression; it is not an archaeological monument. Compiled by: Olive Alcock Date of upload: 16 June 2015.*

13.3.4.2.2 **GA043-091---- : Redundant record : GLENNAFOSHA**

*Description: No visible surface trace survives of a small subcircular feature, cut from E to W by a link road, marked on the 1930 edition of the OS 6-inch map. The cartographic evidence suggests that it was a small pond and not an archaeological monument. Compiled by: Olive Alcock Date of upload: 16 June 2015.*

13.3.4.2.3 **GA043-039----- : Castle - unclassified : CLARETUAM**

*Description: In level grassland at Claretuam, a shrunken house cluster of possible medieval origin. It stood just W of 'Claretuam Bridge', an old crossing point on a tributary of the Clare River. In existence in 1574 when it was in the possession of 'Redmund McMoyler McRice' (Nolan 1901b, 118). According to OS Letters (O'Flanagan 1927, Vol. 1, 125), 'A small fragment of this castle is still pointed out within a small garden'. All that now survives is a block of mortared masonry (L 1.7m, W 1.3m, H 1.9m) incorporated in a field wall. A church (GA043-037—) lay 160m to NW. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

13.3.4.2.4 **GA043-088----- : Ringfort - rath : GLENNAFOSHA**

*Description: In level grassland. Poorly preserved oval ringfort (N-S 40m, E-W 38m) defined by a low bank of earth and stone. A road cuts the monument at E. There is a CBG (GA043-088001-) within the interior. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

According to the monument description the public road along which the Proposed Grid Connection underground cabling route extends cuts the monument at the east. The monument is not depicted on the historic mapping but is visible on 2013-2018 MapGenie aerial imagery. The Proposed Grid Connection underground cabling route extends through the Zone of Notification around this monument.



Figure 13-17: Screen grab from HEV showing the N83 road cutting east side of GA043-088— (2013-2018 MapGenie aerial background).

#### 13.3.4.2.5 **GA043-088001- : Children's burial ground : GLENAFOSHA**

*Description: Within a ringfort (GA043-088—). An unenclosed irregular area within which are at least fifteen randomly placed elongated mounds of loose stone (L c. 2m, With c.1m, H < 0.7m); some are aligned NNE-SSW, others WNW-ESE. No definite grave-markers were identified. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

#### 13.3.4.2.6 **GA057-102---- : House - indeterminate date : CUMMER**

*Description: On a rise in grassland. Marked on 3rd ed. of OS 6-inch map (1933) as a small circular mound (D c. 10m). Aerial reconnaissance in July 1970 (CUCAP BDN 81) revealed it as a small circular feature defined by double-faced stone wall: possibly a house. No visible surface trace survives. A ringfort (GA057-134—) lies c. 50m to SW. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

#### 13.3.4.2.7 **GA057-134---- : Ringfort - rath : MONEEN (Clare By.)**

*Description: On a gentle N-facing slope in grassland. A circular rath (D 57.3m), in fair condition, defined by a denuded bank with intermittent traces of inner and outer stone revetments. From NE to SE, the bank is almost totally levelled. Within the interior are the foundations of two rectangular houses: (a) in SW quadrant (NE-SW; L 13m, With 4m) and (b) in NW quadrant (E-W; L 12m, With 7m), and also a probable souterrain (GA057-134001-). Just to E of centre are traces of a low bank (L 7m) running NNW-SSE. The stone-built 'covered way for sheep ... under the wall' noted by Costello (1903, 9) was not located. An earthwork (GA057-102—) lay c. 50m to NE. (CUCAP BDN 81) The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). In*

certain instances the entries have been revised and updated in the light of recent research. Updated by: Olive Alcock Date of revised upload: 9 August 2016.

The Proposed Grid Connection underground cabling route extends through the Zone of Notification for this and the associated monuments GA057-134001, 002 and 003 below. The monument is depicted and named on the historic mapping as a large sub-circular hachured enclosure to the west of the public road. The outer extent of the monument as depicted on the 2<sup>nd</sup> edition historic OS map is c. 5m west of the public road along which the Proposed Grid Connection electrical cabling route extends.

#### 13.3.4.2.8 **GA057-134002- : House - indeterminate date : MONEEN (Clare By.)**

*Description: Within the SW quadrant of the rath (GA057-134—). Only the foundations of this rectangular house site (13m E-W; 4m N-S; H 0.5m) survive. Another house site (GA057-134003) is visible in the NW quadrant. Compiled by: Olive Alcock Date of upload: 9 August 2016.*

#### 13.3.4.2.9 **GA057-134001- : Souterrain : MONEEN (Clare By.)**

*Description: Within NW quadrant of ringfort (GA057-134—). Costello (1903, 9) refers to a 'much injured souterrain in the centre [of the ringfort]'. It has been filled in and is inaccessible. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

#### 13.3.4.2.10 **GA057-134003- : House - indeterminate date : MONEEN (Clare By.)**

*Description: Within the NW quadrant of the rath (GA057-134—). Only the foundations of this rectangular house site (12m E-W; 7m N-S; H 0.5m) survive. Another house site (GA057-134002) is visible in the SW quadrant. Compiled by: Olive Alcock Date of upload: 9 August 2016.*

#### 13.3.4.2.11 **GA043-089001- : Children's burial ground : GLENNAFOSHA**

*Description: Associated with a ringfort (GA043-089—). Though named on OS 6-inch maps as 'Lisheen', suggesting the presence of a CBG, no visible surface trace survives. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

#### 13.3.4.2.12 **GA043-089002- : Souterrain : GLENNAFOSHA**

*Description: Within a ringfort (GA043-089—). An L-shaped hollow, long axis (L 11.4m, Wth 3.5m) running NE-Sw, short axis (L 7.7m, Wth 3.9) extending off NE end and running N-S. No stonework is visible. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

#### 13.3.4.2.13 **GA043-089---- : Ringfort - rath : GLENNAFOSHA**

*Description: In undulating grassland, Knockmaa Hill is visible to N. An almost circular rath (N-S 40m, E-W 39m), in fair condition, defined by two banks and an intervening fosse. Gap (Wth c. 3.3m) at SE could be original. A probable souterrain (GA043-089002) lies within the interior, and the CBG (GA043-089001) is associated. The above description is derived from the published 'Archaeological Inventory of County Galway Vol. II - North Galway'. Compiled by Olive Alcock, Kathy de hÓra and Paul Gosling (Dublin: Stationery Office, 1999). Date of upload: 05 August 2010.*

The Proposed Grid Connection underground cabling route extends along the public road c. 22m to the west of the outer extent of this monument as depicted on the 2<sup>nd</sup> edition historic OS map. It does not extend through the Zone of Notification for the monument.

### 13.3.4.3 Sub-Surface Archaeological Potential

Approximately 2km of the Proposed Grid Connection underground cabling route within the Proposed Wind Farm site, and the proposed onsite 110kV substation and associated construction compound are located in pasture. Given the greenfield nature of these areas it is possible that previously unrecorded sub-surface archaeological finds, features or deposits are located within the footprint of the proposed onsite 110kV substation and temporary construction compound. The potential therefore exists that sub-surface archaeological sites or features, if present within these areas, may be directly impacted by construction phase activities. Mitigation measures to ameliorate this potential impact are detailed in Section 13.4 below.

### 13.3.4.4 Protected Structures

No Protected Structures are located within 100m of either side of the Proposed Grid Connection underground cabling route or in the vicinity of the proposed onsite 110kV substation and temporary construction compound. The nearest RPS structure, Castlehackett School (Ref. 4000), is located c. 3km north-west of the proposed substation.

### 13.3.4.5 NIAH Structures and Historic Gardens

No NIAH structures or historic gardens are located within 100m of the Proposed Grid Connection underground cabling route or in the vicinity of the proposed onsite 110kV substation and temporary construction compound. As outlined above, the nearest structure comprises Castlehackett National School (NIAH Reg. 30405604) which is also a Protected Structure (Ref. 4000).

### 13.3.4.6 Cartographic Evidence and Local Cultural Heritage

The available historic Ordnance Survey maps were consulted for any items of cultural heritage (CH) merit that may be located along the Proposed Grid Connection underground cabling route, and in the vicinity of the proposed onsite 110kV substation and temporary construction compound. Any items of local cultural heritage merit were assigned a number (CH1, 2, etc) for purposes of identification. Four bridges/culverts (CH1-4) are located on the proposed underground grid connection cabling route, some of which are indicated and named on the available historic mapping. Directional drilling will be utilised at CH2 while a standard trench will be utilised at the other crossings. No alterations to bridge structures or culverts are proposed therefore direct impacts to the structures are not anticipated. The bridges/culverts are listed in Table 13-11 and shown on Figure 13-18. Further detail can be found in Chapter 4, Section 4.7.2.9. It should also be noted that there is 1 no. Motorway crossing that will be traversed along the N83 National Road and the L6141. Due to not being a feature of cultural heritage, this has not been considered further in the assessment.

Table 13-11: Cultural heritage features on proposed underground cabling route.

CH NO.	NAME	ITM E	ITM N
CH1 (WC1 as per CH4)	Claretuam Bridge	540059	749583
CH2 (WC2 as per CH4)	Cloonmore Bridge	540920	749751
CH3 (WC3 as per CH4)	Unnamed	541944	749970



CH NO.	NAME	ITM E	ITM N
CH4 (WC4 as per CH4)	Unnamed	543285	749513



Figure 13-18: CH features along Proposed Grid Connection underground cabling route.

### 13.3.5 Proposed Turbine Delivery Route

For the purposes of assessment, the turbine components and other abnormal loads will be transported from the Port of Galway, north through the city, joining on to the N83 heading north-northwest towards the Site of the Proposed Project, before turning west on to the L61461 Local Road (via temporary access road) in order to access the Proposed Wind Farm site. No junction accommodation works which will require ground works are proposed along the Turbine Delivery Route (TDR) therefore no potential impacts to the recorded or unrecorded cultural heritage resource will occur.

## 13.4 Likely Effects and Associated Mitigation Measures

### 13.4.1 Do Nothing Scenario

If the Proposed Project were not to proceed, the potential to impact on Cultural Heritage and Archaeology would be removed.

If the Proposed Project were not to proceed, the existing use of small-scale agriculture would continue. The opportunity to harness the wind energy resource of County Galway would be lost, as would the opportunity to contribute to meeting Government and EU targets for the production and consumption of electricity from renewable resources and the reduction of greenhouse gas emissions. The opportunity to generate local employment and investment would also be lost.

### 13.4.2 Construction Phase Potential Effects (Indirect)

Indirect effects, in terms of archaeology, architectural and cultural heritage are considered to be those effects which happen away from the Site. This includes impacts on visual setting of any cultural heritage assets in the wider landscape. Since these effects are only possible once development is operational, they are considered operational effects and are therefore discussed in Section 13.4.4 below. No indirect effects were identified which would occur at the construction stage.

### 13.4.3 Construction Phase Potential Effects (Direct)

Direct Impact refers to a 'physical impact' on a monument or site. The construction phase of a development may consist of earthmoving activities such as topsoil removal and excavation works as part of the construction phase. This may have a number of potential negative impacts on the known and potential archaeological heritage. These are outlined below with the suggested mitigation measures.

#### 13.4.3.1 UNESCO World Heritage Sites and those on Tentative List

##### Identification of Effect

##### **Proposed Wind Farm**

No UNESCO World Heritage Sites (WHS) or those on the Tentative list are located within 20km of the nearest proposed turbine. No direct effects to such assets as a result of the Proposed Wind Farm are therefore identified.

### **Proposed Grid Connection**

No UNESCO World Heritage Sites (WHS) or those on the Tentative list are located on or immediately adjacent to the Proposed Grid Connection therefore no direct effects are identified.

## 13.4.3.2 National Monuments

### Identification of Effect

#### **Proposed Wind Farm**

No National Monuments or those subject to a Preservation Order are located on or in the immediate vicinity of the Proposed Wind Farm. No direct effects to such assets as a result of the Proposed Wind Farm are therefore identified.

#### **Proposed Grid Connection**

No National Monuments of those subject to a Preservation Order are located on or immediately adjacent to the Proposed Grid Connection therefore no direct effects are identified.

## 13.4.3.3 Recorded Monuments

### Identification of Effect

#### **Proposed Wind Farm**

Twenty recorded monuments are located within the Proposed Wind Farm site. The monuments are not, however, located in proximity to the Proposed Wind Farm infrastructure footprint. No direct effects to recorded monuments resulting from the Proposed Wind Farm are therefore identified.

#### **Proposed Grid Connection**

Thirteen recorded monuments are located within 100m of the Proposed Grid Connection underground cabling route, while none are located in the footprint of the proposed onsite 110kV substation or associated temporary construction compound. The Proposed Grid Connection underground cabling route extends through the Zone of Notification for recorded monuments GA043-088—, GA057-134— and GA057-102—. While these monuments are not located directly on the road network along which the underground cabling route extends mitigation measures will be implemented during construction works in order to avoid any negative effects arising during construction.

The Proposed Grid Connection underground cabling route extends along the public road past ringfort GA043-088—. The public road would appear to cut the east side of the monument therefore mitigation is recommended in order to avoid any potential direct effects to sub-surface elements of the monument which may survive beneath the public road.

### Mitigation measures

- The Proposed Grid Connection underground cabling route will extend along the east side of the public road, where possible, as it extends past ringfort GA043-088— in order to avoid potential direct impacts to sub-surface archaeological elements of the monument or associated features which may exist in this area.
- Archaeological monitoring will be carried out under licence from the National Monuments Service (NMS) along the relevant sections of the underground grid

connection cabling route where the latter extends through the ZoN for monuments GA043-088—, GA057-134— and GA057-102—.

- A report on the monitoring will be compiled on completion of the work and submitted to the NMS and the Planning Authority.
- Further mitigation such as preservation in situ (avoidance), preservation by record (excavation) may be required depending on the results of the monitoring.

### Residual Effect

Any archaeological sites/features, if detected, during archaeological monitoring will be preserved by record (archaeologically excavated) or preserved in-situ (avoidance) and therefore a full record made of same. In this regard, the potential effect after the implementation of the mitigation measures is likely to be Not Significant.

### Significance of Effects

The overall significance of effects will be Not Significant.

## 13.4.3.4 Sub-surface Archaeological Potential

### Identification of Effect

#### Proposed Wind Farm

Due to the extent of groundworks associated with the construction phase of the Proposed Wind Farm, the largely greenfield nature of the Proposed Wind Farm site and the presence of both recorded and previously unrecorded monuments within same, it is possible that previously unrecorded sub-surface archaeological finds, features or deposits are located within the Proposed Wind Farm site. The potential therefore exists that sub-surface archaeological sites or features, if present within the Proposed Wind Farm site, may be directly impacted by construction phase activities. The potential effect on sub-surface archaeological finds and features, should they exist, as a result of ground works associated with the construction stage of the Proposed Wind Farm are likely to be direct, negative and permanent in the absence of appropriate mitigation measures.

#### Proposed Grid Connection

Approximately 2km of the Proposed Grid Connection underground cabling route (along the Proposed Wind Farm access road) and the proposed onsite 110kV substation and associated construction compound are located in pasture. Given the greenfield nature of these areas it is possible that previously unrecorded sub-surface archaeological finds, features or deposits are located within the footprint of the proposed onsite 110kV substation and the adjacent temporary construction compound and along the proposed electrical cabling route. The potential therefore exists that sub-surface archaeological sites or features, if present within these areas, may be directly impacted by construction phase activities. The potential effect on sub-surface archaeological finds and features, should they exist, as a result of ground works located in pasture areas are likely to be direct, negative and permanent in the absence of appropriate mitigation measures.

### Mitigation measures

- Pre-development archaeological testing of the proposed infrastructure in previously undisturbed greenfield areas of the Site will be carried out under licence from the National Monuments Service. This is in order to identify any archaeological features at the earliest stage possible in the project to allow time to deal with any requirements

such as preservation in situ (redesign / avoidance) or preservation by record (archaeological excavation).

- A report on the testing will be compiled on completion of the work and submitted to the NMS and the Planning Authority.
- Further mitigation such as preservation in situ (avoidance), preservation by record (excavation), buffer zones may be required depending on the results of the testing.
- Archaeological monitoring of all groundworks during the construction stage of the Proposed Project by a licensed archaeologist.
- A report on the monitoring will be compiled on completion of the work and submitted to the NMS and the Planning Authority.
- Further mitigation such as preservation in situ (avoidance), preservation by record (excavation), buffer zones may be required depending on the results of the monitoring.

### Residual Effect

Any archaeological sites/features, if detected, during testing and/or monitoring will be preserved by record (archaeologically excavated) or preserved in-situ (avoidance) and therefore a full record made of same. In this regard, the potential effect after the implementation of the mitigation measures is likely to be Not Significant.

### Significance of Effects

The overall significance of effects will be Not Significant.

## 13.4.3.5 Newly Recorded Monuments

### Identification of Effect

#### **Proposed Wind Farm**

One potential archaeological monument was noted within the Proposed Wind Farm during the walk-over survey. It comprises a sub-circular possible enclosure which is situated towards the east end of the Proposed Wind Farm site. The enclosure is located c. 46m east of a proposed new road and c. 78m south-east of a proposed temporary construction compound. Direct effects to the possible monument are not identified as it is not within the Proposed Wind Farm infrastructure footprint. Mitigation measures are recommended, however, in order to prevent any accidental damage occurring during the construction stage of the Proposed Wind Farm.

#### **Proposed Grid Connection**

The possible enclosure as noted above is also located c. 46m east of the Proposed Grid Connection underground cabling route within the Proposed Wind Farm site. Direct effects to the possible monument are not identified as it is not within the footprint of any proposed infrastructure. Mitigation measures are recommended, however, in order to prevent any accidental damage occurring during the construction stage of the Proposed Grid Connection.

### Mitigation measures

- A 30m buffer zone will be established around the newly recorded possible enclosure. During the Construction phase, the physical buffer will comprise durable temporary fencing with 'keep out' signage. The requirement for the buffer zone and associated signage should be included in the CEMP.

- No ground works or storage of materials or tracking of machinery will take place within the buffer zone.

### Residual Effect

The implementation of the mitigation measures as outlined above will ensure that there are no residual effects.

### Significance of Effects

The overall significance of effects will be Not Significant.

## 13.4.3.6 Protected Structures

### Proposed Wind Farm

No Protected Structures subject to statutory protection are located within the Proposed Wind Farm site therefore no potential direct effects to this resource are identified.

### Proposed Grid Connection

No Protected Structures subject to statutory protection are located in the vicinity of the Proposed Grid Connection therefore no direct effects to this resource from the construction of the Proposed Grid Connection infrastructure are identified.

## 13.4.3.7 NIAH structures and Historic Gardens

### Proposed Wind Farm

No structures listed in the NIAH or historic gardens are located within the Proposed Wind Farm site therefore no direct effects to such structures are identified.

### Proposed Grid Connection

No structures listed in the NIAH are located in the area of the Proposed Grid Connection, therefore no direct effects to such structures or historic gardens from the construction of the Proposed Grid Connection are identified.

## 13.4.3.8 Features of Local Cultural Heritage Merit

### Identification of Effect

### Proposed Wind Farm

No upstanding features of local cultural heritage merit were identified within the Proposed Wind Farm site therefore no direct effects to same are anticipated.

### Proposed Grid Connection

Four road watercourse crossings (CH1-4) area located on the public road along which the Proposed Grid Connection underground grid connection route extends. Both Directional Drilling (DD) and crossing using a standard trefoil or flatbed formation will be utilised at watercourse crossings depending on the level of cover at each culvert or bridge. No alterations to bridges or culverts are proposed therefore direct effects to the bridge structures/culverts are not anticipated.

## 13.4.4 Operational Phase Potential Effects (Indirect)

Indirect effects are where a feature or site of archaeological, architectural heritage merit or their setting is located in close proximity to a proposed development. Indirect effects here are mainly concerned with effects on setting of cultural heritage sites.

Effects on settings of sites may arise when a development is proposed immediately adjacent to a recorded monument or cluster of monuments. While the Proposed Project may not physically impact on a site, it may alter the setting of a monument or group of monuments. There is no standardised industry-wide approach for assessing the degree of effect to the setting of a monument. For purposes of assessing visual effects on setting, the uniqueness of the monuments, the potential interrelationships of monuments, the inter-visibility of monuments, visual dominance and whether a setting is altered or unaltered can be used to assess effect. The nature and dominance of the Proposed Project is also taken into consideration and the topography within which the Proposed Project is located. Operational effects are considered largely as a result of the proposed turbines rather than other elements of the Proposed Project which would not be dominant in the wider landscape setting in general. The assessment of effects on visual setting was undertaken using both the Zone of Theoretical Visibility (ZTV) map in the Landscape and Visual Impact Assessment (LVIA), as presented in Chapter 14 of this EIAR, and also with reference to photomontages / Photowires. The ZTV is a bare-ground model which does not take screening vegetation into account.

### 13.4.4.1 UNESCO World Heritage Sites and those on Tentative List

#### **Proposed Wind Farm**

No UNESCO World Heritage Sites (WHS) or those on the Tentative list are located within 20km of the nearest proposed turbine. No potential effects to the setting of such sites as a result of the Proposed Wind Farm are therefore identified.

#### **Proposed Grid Connection**

No UNESCO World Heritage Sites (WHS) or those on the Tentative list are located within 20km of the Proposed Grid Connection. No potential effects to the setting of such sites as a result of the Proposed Grid Connection area therefore identified.

### 13.4.4.2 National Monuments

#### Identification of Effect

#### **Proposed Wind Farm**

Three National Monuments in State Care and five monuments subject to a Preservation Order are located within 10km of the nearest proposed turbine (Table 13.3). The ZTV indicates theoretical visibility of 7-8 turbines from the locations of all National Monuments and those subject to a Preservation Order within 10km of the nearest proposed turbine. The nearest of the National Monuments (Nat. Mon. No. 369) is situated c. 2.1km from the nearest proposed turbine, T8, and comprises an upstanding bawn. The remaining National Monuments are located between 7.8km and 9.4km from the nearest proposed turbine. One of these comprises Tuam High Cross (Nat. Mon. No. 505) which is now located inside St Mary's Cathedral and while the ZTV demonstrates theoretical visibility of the proposed turbines, this is likely to be negated by its location in an urban setting inside a building. Similarly, the distance of the early medieval ecclesiastical complex at Annaghdown townland c. 7.8km from the nearest proposed turbine and the natural screening not taken into consideration by the ZTV is likely to minimise potential visual effects.

A change to the immediate setting of the aforementioned monuments will not occur, however, a change to their wider setting in which the monument is located is acknowledged. This is considered to be Not Significant.

Three monuments subject to a preservation order (1/1991, 2/1991 and 3/1991) at Cahermorris townland are located within 1km of the nearest proposed turbine, T1. The ZTV demonstrates theoretical visibility of 7-8 proposed turbines from the area of the monuments. Given the proximity of the monuments (c. 491m-867m) to the nearest proposed turbine visibility of the proposed turbines is likely. No surface trace of the large enclosure or the castle which once stood here survive. While the immediate setting of the monuments will not be effected a change to their wider setting will occur and is considered to be Slight-Not Significant given their poorly preserved remains.

### **Proposed Grid Connection**

No National Monuments in State Care or those subject to a preservation order are located within 100m of the underground cabling route, or in the vicinity of the proposed substation and its associated temporary construction compound. The nearest of these monuments to the proposed onsite 110kV substation and temporary construction compound comprises the bawn at Caheravoley (Nat. Mon. No. 369) which is situated c. 2.3km to the south-east. A change to the immediate setting of this monument as a result of the Proposed Grid Connection will not therefore occur. A change to the wider setting within which the monument is located is identified but is regarded as Not Significant.

### Mitigation Measures

The distance of the National Monuments and those subject to a Preservation Order from the proposed turbines in addition to the low-visibility /sub-surface nature of some of the monuments will mitigate potential visual effects. It is also noted that natural screening, boundaries, buildings and vegetation are not taken into account in the ZTV model and therefore potential visual effects may in reality be less severe.

### Residual Effect

Not Significant-Slight.

### Significance of Effects

The overall significance of effects will be Not Significant-Slight.

Table 13.12: Table of impacts on National Monuments and those subject to a Preservation Order within 10km of the nearest proposed turbine.

Nat. Mon. No.	SMR NO.	CLASS	TOWNLAND	TURBINE ID	DISTANCE TO NEAREST TURBINE (m)	Potential Effect	Significance of Effect
369	GA057-067001-, GA057-067003-, GA057-067004-	House & Bawn	Caheravoley, Kilcahill	T08	2181	Indirect visual	Not Significant
49	GA069-001—	Early Medieval Ecclesiastical Site	Annaghdown	T01	7846	Indirect visual	Not Significant
505	GA029-179004-	High Cross	Townparks 2nd Division	T08	9477	Indirect visual	Not Significant
3/1991	GA056-041; GA056-041001-	Ringfort with Souterrain	CAHERMORRIS	T01	491	Indirect visual	Slight
2/1991	GA056-042—	Ringfort	CAHERMORRIS	T01	866	Indirect visual	Slight
1/1991	GA056-043001-; GA056-043002-	Enclosure and Castle	CAHERMORRIS	T01	867	Indirect visual	Slight
206/1955	GA042-061; GA042-061001-	Ringfort and souterrain	CALTRAGH (Killower ED)	T04	4250	Indirect visual	Not Significant
2/2002	GA070-089; GA070-089001-; GA070-091—	Medieval Settlement Site	LACKAGH BEG, LACKAGH MORE	T08	8068	Indirect visual	Not Significant

### 13.4.4.3 Recorded Monuments

#### Identification of Effect

##### **Proposed Wind Farm**

Twenty recorded monuments are located within the Proposed Wind Farm site while a total of four hundred and thirty-five (435) recorded monuments are located within 5km of the nearest proposed turbine. This number includes the monuments located within the Proposed Wind Farm site. The monuments within the 5km study area were overlaid on the ZTV to ascertain what number of turbines may be visible from their locations. The ZTV shows that 415 of the 435 monuments are located in areas where 7-8 turbines will theoretically be visible. Five monuments are located in areas where 4-6 turbines will theoretically be visible with two monuments in areas where 1-3 turbines will theoretically be visible. Fourteen monuments are located in areas where none of the proposed turbines will theoretically be visible.

Both the distance to the nearest turbine and the number of turbines visible from each asset are used to arrive a level of potential effect on setting. Potential effects on setting as detailed in Table 13-13 below are based on the worst-case scenario in that natural screening, boundaries, buildings and vegetation are not taken into account in the ZTV model. In reality the effect will be reduced since the ZTV model does not take natural screening and buildings into consideration which will alleviate if not remove the effect on setting altogether. Furthermore, many of these monuments may not be readily discernible in the landscape which further ameliorates effects on setting. The physical status of those monuments within 1-2km of the proposed turbines (Map ID 1-95) was checked on the HEV and where no surface trace of the monuments survives no potential visual effect is concluded. The same is concluded for redundant records. The theoretical significance of effects for such monuments (both redundant records and those with no surface trace) is graded as N/A in Table 13-13 below while an Imperceptible significance of effects is concluded for monuments located where no turbines will theoretically be visible.

A photowire (PWVP-V) was created from a group of cairns on Knockma Hill which are situated over 4km from the nearest proposed turbine, T4. The ZTV indicates theoretical visibility of all proposed turbines from these monuments and the photowire also demonstrates full visibility of six of the proposed turbines with partial or full screening of the remaining two turbines.

Table 13-13: Table of potential effects on setting of recorded monuments within 5km of the nearest proposed turbine.

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
1	GA057-163—	KILCURRIV EIGHTER	House - indeterminate date	T04	215	7-8	N/A
2	GA057-132—	LAURCLAVAGH	Enclosure	T06	224	7-8	Moderate
3	GA056-036—	BUNNAHEVELLY BEG	Enclosure	T01	254	7-8	Moderate
4	GA057-133—	LAURCLAVAGH	Ringfort - unclassified	T06	255	7-8	N/A
5	GA056-039—	BUNNAHEVELLY MORE	Redundant record	T03	315	7-8	N/A
6	GA057-164—	LAURCLAVAGH	Field system	T07	344	7-8	Moderate
7	GA057-129—	KILCURRIV EIGHTER	Well	T08	371	7-8	N/A
8	GA057-114—	KILCURRIVARD	Ringfort - unclassified	T08	397	7-8	Moderate
9	GA056-038—	BUNNAHEVELLY MORE	Enclosure	T01	412	7-8	N/A
10	GA057-164001-	LAURCLAVAGH	Hut site	T07	457	7-8	Moderate

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
11	GA056-037—	BUNNAHEVELLY MORE	Ringfort - unclassified	T01	467	7-8	Moderate
12	GA056-062—	CLUIDREVAGH	Enclosure	T02	471	7-8	Moderate
13	GA056-060—	CLUIDREVAGH	Ringfort - unclassified	T02	482	7-8	Moderate
14	GA056-088—	LAURCLAVAGH	Enclosure	T05	487	7-8	N/A
15	GA057-045—	BALLYNACREG NORTH, KILCURRIV EIGHTER	Redundant record	T08	490	7-8	N/A
16	GA056-041—	CAHERMORRIS	Ringfort - cashel	T01	491	7-8	Moderate
17	GA056-041001-	CAHERMORRIS	Souterrain	T01	491	7-8	Moderate
18	GA057-118—	KILCURRIVARD	Enclosure	T07	505	7-8	N/A
19	GA057-115—	KILCURRIVARD	House - indeterminate date	T08	505	7-8	Moderate
20	GA057-116—	KILCURRIVARD	Ringfort - unclassified	T07	523	7-8	Moderate

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
21	GA056-061—	CLUIDREVAGH	Redundant record	T02	524	7-8	N/A
22	GA057-076001-	CARROWNAHERIC K EAST	Ringfort - cashel	T04	528	7-8	Moderate
23	GA057-076003-	CARROWNAHERIC K EAST	House - indeterminate date	T04	528	7-8	Moderate
24	GA057-076004-	CARROWNAHERIC K EAST	House - indeterminate date	T04	528	7-8	Moderate
25	GA057-127—	KILCURRIVARD	Redundant record	T08	533	7-8	N/A
26	GA057-076002-	CARROWNAHERIC K EAST, KILCURRIV EIGHTER	Field system	T04	541	7-8	Moderate
27	GA057-160—	KILCURRIV EIGHTER	House - indeterminate date	T04	564	7-8	Moderate
28	GA056-059—	CLUIDREVAGH	Ringfort - unclassified	T02	566	7-8	Moderate

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
29	GA057-117001-	KILCURRIVARD	Souterrain	T07	579	7-8	Moderate
30	GA057-117—	KILCURRIVARD	Ringfort - unclassified	T07	588	7-8	Moderate
31	GA057-164002-	LAURCLAVAGH	Hut site	T07	629	7-8	Moderate
32	GA056-023—	BIGGERA MORE	Ringfort - unclassified	T02	790	7-8	Moderate
33	GA057-122—	KILCURRIVARD	Souterrain	T07	801	7-8	N/A
34	GA057-123—	KILCURRIVARD	Enclosure	T08	816	7-8	Moderate
35	GA057-119—	KILCURRIVARD	Ringfort - unclassified	T07	825	7-8	Moderate
36	GA056-042—	CAHERMORRIS	Ringfort - cashel	T01	866	7-8	Moderate
37	GA056-043001-	CAHERMORRIS	Enclosure - large enclosure	T01	867	7-8	N/A
38	GA056-043002-	CAHERMORRIS	Castle - unclassified	T01	867	7-8	N/A

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
39	GA056-143—	BUNNAHEVELLY MORE	Children's burial ground	T01	1019	7-8	Moderate
40	GA057-046—	BALLYNACREG NORTH	Redundant record	T08	1039	7-8	N/A
41	GA057-124001-	KILCURRIVARD	Redundant record	T08	1072	7-8	N/A
42	GA057-162—	KILCURRIV EIGHTER	Field system	T04	1081	7-8	Moderate
43	GA057-126—	KILCURRIVARD	Burial	T08	1083	7-8	N/A
44	GA057-121001-	KILCURRIVARD	Souterrain	T07	1088	7-8	Moderate
45	GA057-109—	GARRAUN SOUTH (Clare By.)	Cairn clearance cairn	T08	1090	7-8	Moderate
46	GA057-124—	KILCURRIVARD	Fulacht fia	T08	1092	7-8	Moderate
47	GA056-145—	CLUIDREVAGH	Souterrain	T02	1096	7-8	Moderate
48	GA057-121—	KILCURRIVARD	Ringfort cashel	T07	1106	7-8	Moderate

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
49	GA057-121003-	KILCURRIVARD	House - indeterminate date	T07	1106	7-8	Moderate
50	GA056-045—	CAHERMORRIS	Country house	T01	1108	7-8	Moderate
51	GA057-121002-	KILCURRIVARD	House - indeterminate date	T07	1114	7-8	Moderate
52	GA043-031—	CARROWNAHERICK EAST	Redundant record	T04	1215	7-8	N/A
53	GA057-125—	KILCURRIVARD	Fulacht fia	T08	1225	7-8	Moderate
54	GA056-022—	BIGGERA MORE	Enclosure	T04	1235	7-8	N/A
55	GA057-120—	KILCURRIVARD	Ringfort - unclassified	T08	1341	7-8	Moderate
56	GA057-120001-	KILCURRIVARD	Children's burial ground	T08	1341	7-8	Moderate
57	GA056-144—	CLUIDREVAGH	Ringfort - cashel	T01	1355	7-8	Moderate

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
58	GA057-176—	BUNOGHANAUN	Enclosure	T06	1360	7-8	Moderate
59	GA057-064—	BUNOGHANAUN	Ringfort - unclassified	T06	1575	7-8	Moderate
60	GA043-082—	GARRAUN SOUTH (Clare By.)	Well	T08	1585	7-8	Moderate
61	GA043-083—	GARRAUN SOUTH (Clare By.)	Redundant record	T04	1687	7-8	N/A
62	GA056-142003-	PARKANALLACAN	Enclosure	T01	1689	7-8	Moderate
63	GA056-142002-	PARKANALLACAN	Souterrain	T01	1689	7-8	Moderate
64	GA057-134002-	MONEEN (Clare By.)	House - indeterminate date	T08	1692	7-8	Moderate
65	GA057-134003-	MONEEN (Clare By.)	House - indeterminate date	T08	1709	7-8	Moderate
66	GA056-069—	GLENREVAGH (Clare By.)	Anomalous stone group	T01	1709	7-8	Moderate
67	GA056-066—	GLENREVAGH (Clare By.)	Enclosure	T01	1710	7-8	Moderate

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
68	GA056-066001-	GLENREVAGH (Clare By.)	Souterrain	T01	1710	7-8	N/A
69	GA057-134001-	MONEEN (Clare By.)	Souterrain	T08	1710	7-8	N/A
70	GA057-134—	MONEEN (Clare By.)	Ringfort - rath	T08	1711	7-8	Moderate
71	GA043-081—	GARRAUN SOUTH (Clare By.)	Redundant record	T04	1712	7-8	N/A
72	GA056-065—	GLENREVAGH (Clare By.)	Children's burial ground	T01	1718	7-8	N/A
73	GA056-065001-	GLENREVAGH (Clare By.)	Enclosure	T01	1718	7-8	N/A
74	GA056-030—	BUNATOBER	Ringfort - unclassified	T01	1736	7-8	Moderate
75	GA057-149—	AN TAMHNACH MHÓR	Redundant record	T08	1736	7-8	N/A
76	GA057-099—	CUMMER	Mound	T08	1757	7-8	Moderate
77	GA057-066—	CAHERAVOLEY	Ringfort - unclassified	T08	1770	7-8	Moderate

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
78	GA057-102—	CUMMER	House - indeterminate date	T08	1776	7-8	N/A
79	GA056-033—	BUNATOBER	Earthwork	T01	1783	7-8	N/A
80	GA056-142001-	PARKANALLACAN	Children's burial ground	T01	1786	7-8	Moderate
81	GA056-031—	BUNATOBER	Earthwork	T01	1795	7-8	Moderate
82	GA057-100—	CUMMER	Mound	T08	1795	7-8	Moderate
83	GA056-067—	GLENREVAGH (Clare By.)	Redundant record	T01	1797	7-8	N/A
84	GA057-101—	CUMMER	Mound	T08	1833	7-8	Moderate
85	GA057-069—	CAHERAVOLEY	House - indeterminate date	T08	1845	7-8	Moderate
86	GA057-097—	CUMMER	Redundant record	T08	1855	7-8	N/A
87	GA057-148—	AN TAMHNACH MHÓR	Ringfort - unclassified	T08	1878	7-8	Moderate

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
88	GA056-032—	BUNATOBER	Ringfort - unclassified	T01	1891	7-8	Moderate
89	GA056-064—	FEARAGHA	Ringfort - unclassified	T02	1900	7-8	N/A
90	GA056-024010-	BOLISHEEN	Megalithic structure	T03	1915	7-8	Moderate
91	GA042-128—	FEARAGHA	Ringfort - unclassified	T02	1959	7-8	N/A
92	GA057-178001-	CLOGH SOUTH	Barrow - unclassified	T08	1963	7-8	Moderate
93	GA056-068—	GLENREVAGH (Clare By.)	Burial ground	T01	1980	7-8	N/A
94	GA057-098—	CUMMER	Cairn - unclassified	T08	1997	7-8	Moderate
95	GA042-029—	BIGGERA BEG	Ringfort - rath	T04	1997	7-8	Moderate
96	GA057-178002-	CLOGH SOUTH	Barrow - unclassified	T08	2002	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
97	GA042-127—	FEARAGHA	Ringfort - unclassified	T02	2017	7-8	Slight
98	GA057-153—	AN TAMHNACH MHÓR	Designed landscape feature	T08	2020	7-8	Slight
99	GA057-071—	CAHERAVOLEY	Ringfort - cashel	T08	2070	7-8	Slight
100	GA042-129—	FEARAGHA	Redundant record	T02	2070	7-8	N/A
101	GA057-067008-	CAHERAVOLEY	House - indeterminate date	T08	2073	7-8	Slight
102	GA057-067009-	CAHERAVOLEY	House - indeterminate date	T08	2073	7-8	Slight
103	GA057-067005-	CAHERAVOLEY	Ringfort - cashel	T08	2073	7-8	Slight
104	GA057-067006-	CAHERAVOLEY	House - indeterminate date	T08	2073	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
105	GA057-067007-	CAHERAVOLEY	House - indeterminate date	T08	2073	7-8	Slight
106	GA057-067010-	CAHERAVOLEY	House - indeterminate date	T08	2097	7-8	Slight
107	GA043-067—	CULLEEN	Redundant record	T08	2107	7-8	N/A
108	GA056-024001-	BOLISHEEN	Ringfort - cashel	T01	2115	7-8	Slight
109	GA056-024003-	BOLISHEEN	Souterrain	T01	2115	7-8	Slight
110	GA056-029—	BREDAGH (Clare By.)	Enclosure	T01	2116	7-8	Slight
110	GA042-030—	BIGGERA BEG	Redundant record	T02	2145	7-8	N/A
111	GA057-067004-	CAHERAVOLEY	Building	T08	2169	7-8	Slight
112	GA057-145—	STRIPE (Clare By.)	House - indeterminate date	T08	2172	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
113	GA057-067001-	CAHERAVOLEY	Bawn	T08	2181	7-8	Slight
114	GA057-067003-	CAHERAVOLEY	House - indeterminate date	T08	2181	7-8	Slight
115	GA057-144—	STRIPE (Clare By.)	Ringfort - unclassified	T08	2186	7-8	Slight
116	GA056-024008-	BOLISHEEN	Field system	T01	2194	7-8	Slight
117	GA057-065—	BUNOGHANAUN	Redundant record	T03	2208	7-8	N/A
118	GA056-024009-	BOLISHEEN	Ringfort - cashel	T01	2213	7-8	Slight
119	GA057-067002-	CAHERAVOLEY,KI LCAHILL	Field system	T08	2225	7-8	Slight
120	GA056-135—	TURLOUGHGARVE	Ringfort - unclassified	T01	2236	7-8	Slight
121	GA057-067011-	CAHERAVOLEY	Ringfort - cashel	T08	2242	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
122	GA057-067013-	KILCAHILL	House - indeterminate date	T08	2246	7-8	Slight
123	GA057-067012-	KILCAHILL	Enclosure	T08	2248	7-8	Slight
124	GA056-027—	BREDAGH (Clare By.)	Enclosure	T01	2257	7-8	Slight
125	GA056-035—	BUNATOVER	Mill - corn	T01	2257	4-6	Slight
126	GA057-150—	AN TAMHNACH MHÓR	Designed landscape feature	T08	2281	7-8	Slight
127	GA057-177—	CARHEENSHOWA GH	Barrow - ring-barrow	T08	2335	7-8	Slight
128	GA057-151—	AN TAMHNACH MHÓR	Designed landscape feature	T08	2361	7-8	Slight
129	GA056-024007-	BOLISHEEN	Ringfort - cashel	T01	2369	7-8	Slight
130	GA056-026—	BOLISHEEN, TOMNAHULLA	Redundant record	T03	2415	7-8	N/A

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
131	GA057-070—	CAHERAVOLEY,KI LCAHILL	Ringfort - unclassified	T08	2417	7-8	Slight
132	GA056-028—	BREDAGH (Clare By.)	Ringfort - unclassified	T01	2425	7-8	Slight
133	GA056-024004-	BOLISHEEN	Ringfort - cashel	T03	2433	7-8	Slight
134	GA056-024006-	BOLISHEEN	House - indeterminate date	T03	2434	7-8	Slight
135	GA056-024005-	BOLISHEEN	Ringfort - cashel	T03	2443	7-8	Slight
136	GA042-130—	FEARAGHA	Redundant record	T02	2454	7-8	N/A
137	GA042-126—	FEARAGHA	Ringfort - cashel	T02	2458	7-8	Slight
138	GA042-126001-	FEARAGHA	Children's burial ground	T02	2458	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
139	GA057-152—	AN TAMHNACH MHÓR	Designed landscape feature	T08	2460	7-8	Slight
140	GA057-078—	CARROWREAGH (Clare By.)	Redundant record	T08	2474	7-8	N/A
141	GA056-019—	BALROBUCK BEG	Ringfort - unclassified	T01	2495	7-8	Slight
142	GA056-104—	KNOCKEREEN	Enclosure	T01	2508	7-8	Slight
143	GA056-136—	TURLOUGHGARVE	Enclosure	T01	2510	7-8	Slight
144	GA056-103001-	KNOCKEREEN	Souterrain	T01	2546	7-8	Slight
145	GA056-103—	KNOCKEREEN	Ringfort - unclassified	T01	2547	7-8	Slight
146	GA056-034001-	BUNATOBER	Graveslab	T01	2551	7-8	Slight
147	GA056-034002-	BUNATOBER	Ritual site - holy well	T01	2551	7-8	Slight
148	GA042-191—	MANUSLYNN	Ringfort - cashel	T02	2576	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
149	GA057-170—	KILCAHILL	Barrow - ring-barrow	T07	2588	7-8	Slight
150	GA056-024011-	BOLISHEEN	Ringfort - cashel	T01	2599	7-8	Slight
151	GA057-074002-	CARHEENSHOWA GH	Field system	T08	2612	7-8	Slight
152	GA056-114—	MANUSLYNN	Enclosure	T01	2618	7-8	Slight
153	GA042-193—	MANUSLYNN	House - indeterminate date	T02	2620	7-8	Slight
154	GA056-105—	KNOCKEREEN	Enclosure	T01	2633	7-8	Slight
155	GA043-065—	CULLEEN	Ringfort - unclassified	T08	2633	7-8	Slight
156	GA057-074001-	CARHEENSHOWA GH, STRIPE (Clare By.)	Ringfort - unclassified	T08	2645	7-8	Slight
157	GA057-075—	CARHEENSHOWA GH	Quarry	T08	2685	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
158	GA042-077—	CARHEENS	Designed landscape feature	T04	2701	7-8	Slight
159	GA042-131—	FEARAGHA	Earthwork	T02	2737	7-8	Slight
160	GA056-098—	KILROE	Designed landscape tree-ring	T01	2740	7-8	Slight
161	GA057-080—	CLOGH SOUTH	Enclosure	T08	2766	7-8	Slight
162	GA056-102—	KNOCKEREEN	Ringfort - unclassified	T01	2768	7-8	Slight
163	GA042-234—	FEARAGHA	House - 18th/19th century	T02	2778	7-8	Slight
164	GA057-068001-	CAHERAVOLEY	Souterrain	T08	2804	7-8	Slight
165	GA057-017001-	ARDGAINEN	Structure	T06	2805	7-8	Slight
166	GA057-068—	CAHERAVOLEY	Ringfort - unclassified	T08	2806	7-8	Slight
167	GA057-017—	ARDGAINEN	Redundant record	T06	2815	7-8	N/A

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
168	GA056-097002-	KILROE	Kiln - lime	T01	2819	7-8	Slight
169	GA057-112—	KILCAHILL	Well	T08	2823	7-8	Slight
170	GA056-097—	KILROE	Designed landscape tree-ring	T01	2855	7-8	Slight
171	GA057-079—	CARROWREAGH (Clare By.)	Designed landscape feature	T08	2867	7-8	Slight
172	GA043-069001-	CULLEEN	Souterrain	T08	2871	7-8	Slight
173	GA043-069—	CULLEEN	Ringfort cashel	T08	2871	7-8	Slight
174	GA056-137—	TURLOUGHGARVE	Inscribed stone	T01	2880	7-8	Slight
175	GA043-074—	CUMMER	Ringfort cashel	T08	2897	7-8	Slight
176	GA056-097001-	KILROE	Designed landscape tree-ring	T01	2903	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
177	GA057-073—	CARHEENSHOWA GH	Enclosure	T08	2964	7-8	Slight
178	GA042-125—	FEARAGHA	Ringfort rath	T02	2967	7-8	Slight
179	GA057-143001-	STRIPE (Clare By.)	Souterrain	T08	2980	7-8	Slight
180	GA043-002—	BALLAGH	Redundant record	T08	2989	7-8	N/A
181	GA056-115—	MANUSLYNN	Ringfort unclassified	T01	2990	7-8	Slight
182	GA057-143—	STRIPE (Clare By.)	Ringfort unclassified	T08	2998	7-8	Slight
183	GA056-101001-	KNOCKEREEN	Souterrain	T01	3018	7-8	Slight
184	GA056-101—	KNOCKEREEN	Ringfort unclassified	T01	3025	7-8	Slight
185	GA043-068—	CULLEEN	Redundant record	T08	3038	7-8	N/A
186	GA042-190—	MANUSLYNN	Ringfort cashel	T02	3046	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
187	GA057-167—	ARDGAINEN	Redundant record	T07	3048	7-8	N/A
188	GA057-166—	ARDGAINEN	Barrow - ring-barrow	T07	3068	7-8	Slight
189	GA042-211—	POLLNAHALLIA	Redundant record	T04	3071	7-8	N/A
190	GA042-076004-	CARHEENS	House - indeterminate date	T04	3079	7-8	Slight
191	GA042-076—	CARHEENS	Children's burial ground	T04	3080	7-8	Slight
192	GA042-076001-	CARHEENS	Enclosure	T04	3083	7-8	Slight
193	GA042-076005-	CARHEENS	House - indeterminate date	T04	3083	7-8	Slight
194	GA042-076006-	CARHEENS	House - indeterminate date	T04	3083	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
195	GA042-076007-	CARHEENS	House - indeterminate date	T04	3083	7-8	Slight
196	GA057-165—	ARDGAINEN	Souterrain	T07	3088	7-8	Slight
197	GA042-076003-	CARHEENS	Well	T04	3089	7-8	Slight
198	GA042-076002-	CARHEENS	House - indeterminate date	T04	3094	7-8	Slight
199	GA057-135—	MYLESPARK	Ringfort - unclassified	T08	3108	7-8	Slight
200	GA057-135001-	MYLESPARK	Souterrain	T08	3108	7-8	Slight
201	GA042-189001-	MANUSLYNN	Ringfort - cashel	T02	3115	7-8	Slight
202	GA042-189002-	MANUSLYNN	Cairn - unclassified	T02	3120	7-8	Slight
203	GA043-085005-	GLEBE (Cummer ED)	Well	T08	3146	7-8	Slight
204	GA043-043—	CLOGH NORTH	Ringfort - rath	T08	3164	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
205	GA043-085003-	GLEBE (Cummer ED)	Graveyard	T08	3169	7-8	Slight
206	GA043-085002-	GLEBE (Cummer ED)	Church	T08	3175	7-8	Slight
207	GA043-085001-	CUMMER, GLEBE (Cummer ED)	Ecclesiastical enclosure	T08	3177	7-8	Slight
208	GA043-085004-	GLEBE (Cummer ED)	Burial	T08	3179	7-8	Slight
209	GA057-146—	AN TAMHNACH MHÓR	Castle - tower house	T08	3192	4-6	Not Significant
210	GA057-002001-	TOMNAHULLA	Souterrain	T08	3241	7-8	Slight
211	GA042-212—	POLLNAHALLIA	Ringfort - cashel	T04	3242	7-8	Slight
212	GA056-138003-	TURLOUGHGARVE	House - indeterminate date	T01	3250	7-8	Slight
213	GA056-138004-	TURLOUGHGARVE	House - indeterminate date	T01	3257	7-8	Slight
214	GA057-002—	ANBALLY	Ringfort - unclassified	T08	3260	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
215	GA056-020—	BALROBUCK MORE	Enclosure	T01	3283	7-8	Slight
216	GA056-138002-	TURLOUGHGARVE	House - indeterminate date	T01	3286	7-8	Slight
217	GA056-138—	TURLOUGHGARVE	Field system	T01	3325	7-8	Slight
218	GA042-124—	FEARAGHA	Ringfort - cashel	T02	3331	7-8	Slight
219	GA056-138001-	TURLOUGHGARVE	Ringfort - cashel	T01	3345	7-8	Slight
220	GA057-147—	AN TAMHNACH MHÓR	Children's burial ground	T08	3358	4-6	Not Significant
221	GA056-013—	BALLYDONNELLA N	Ringfort - unclassified	T01	3367	7-8	Slight
222	GA056-013001-	BALLYDONNELLA N	Souterrain	T01	3367	7-8	Slight
223	GA056-138005-	TURLOUGHGARVE	House - indeterminate date	T01	3376	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
224	GA056-138006-	TURLOUGHGARVE	Fulacht fia	T01	3376	7-8	Slight
225	GA057-110001-	KILCAHILL	Ringfort cashel	T08	3415	7-8	Slight
226	GA057-110002-	KILCAHILL	Field system	T08	3420	7-8	Slight
227	GA057-110—	KILCAHILL	Ringfort cashel	T08	3422	7-8	Slight
228	GA056-138007-	TURLOUGHGARVE	Redundant record	T01	3424	7-8	N/A
229	GA042-188—	MANUSLYNN	Ringfort rath	T02	3435	7-8	Slight
230	GA042-123—	FEARAGHA,POLLN AHALLIA	Ringfort cashel	T02	3437	7-8	Slight
231	GA042-123001-	FEARAGHA	Souterrain	T02	3437	7-8	Slight
232	GA057-106—	CURRY OUGHTER	Children's burial ground	T08	3438	7-8	Slight
233	GA043-071—	CUMMER	Earthwork	T08	3456	7-8	Slight
234	GA056-141—	TURLOUGHGARVE	Enclosure	T01	3479	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
235	GA056-085001-	KILCOONA	Church	T01	3506	7-8	Slight
236	GA056-085002-	KILCOONA	Graveyard	T01	3509	7-8	Slight
237	GA056-085003-	KILCOONA	Round tower	T01	3513	7-8	Slight
238	GA042-195—	MANUSLYNN	Redundant record	T02	3516	7-8	N/A
239	GA042-194—	MANUSLYNN	House - indeterminate date	T02	3521	7-8	Slight
240	GA043-076004-	CUMMER	House - indeterminate date	T08	3529	7-8	Slight
241	GA043-076002-	CUMMER	Enclosure	T08	3533	7-8	Slight
242	GA043-076003-	CUMMER	House - indeterminate date	T08	3534	7-8	Slight
243	GA056-016—	BALLYDONNELLA N	Sweathouse	T01	3535	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
244	GA057-154001-	TOMNAHULLA	House - indeterminate date	T03	3538	7-8	Slight
245	GA057-016—	ARDGAINEN	Ringfort - cashel	T07	3564	7-8	Slight
246	GA042-213001-	POLLNAHALLIA	Enclosure	T02	3567	7-8	Slight
247	GA057-154—	TOMNAHULLA	Ringfort - cashel	T03	3573	7-8	Slight
248	GA057-111—	KILCAHILL	Cairn - wayside cairn	T08	3579	7-8	Slight
249	GA042-210—	POLLNAHALLIA	Redundant record	T02	3584	7-8	N/A
250	GA057-019—	ARDGAINEN	House - indeterminate date	T07	3587	7-8	Slight
251	GA043-076005-	CUMMER	Fulacht fia	T08	3598	7-8	Slight
252	GA057-158—	TOMNAHULLA	House - indeterminate date	T03	3611	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
253	GA057-158001-	TOMNAHULLA	House - indeterminate date	T03	3611	7-8	Slight
254	GA057-085006-	CORRANDRUM	House - indeterminate date	T08	3614	7-8	Slight
255	GA057-085007-	CORRANDRUM	House - indeterminate date	T08	3614	7-8	Slight
256	GA057-085001-	CORRANDRUM	Church	T08	3614	7-8	Slight
257	GA057-085008-	CORRANDRUM	Enclosure	T08	3615	7-8	Slight
258	GA057-085004-	CORRANDRUM	House - indeterminate date	T08	3615	7-8	Slight
259	GA057-085005-	CORRANDRUM	House - indeterminate date	T08	3615	7-8	Slight
260	GA057-085002-	CORRANDRUM	House - indeterminate date	T08	3621	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
261	GA057-085003-	CORRANDRUM	Children's burial ground	T08	3622	7-8	Slight
262	GA057-096—	CORROFIN	Country house	T08	3639	7-8	Slight
263	GA043-070—	CUMMER	Castle - tower house	T08	3640	7-8	Slight
264	GA043-070001-	CUMMER	Bawn	T08	3643	7-8	Slight
265	GA043-076001-	CUMMER	Fulacht fia	T08	3646	7-8	Slight
266	GA057-018—	ARDGAINEN	House - indeterminate date	T07	3675	7-8	Slight
267	GA042-208—	POLLNAHALLIA	Souterrain	T02	3677	7-8	Slight
268	GA056-021—	BALROBUCK MORE, SHANBALLY (Clare By.)	Forge	T01	3686	7-8	Slight
269	GA057-156—	TOMNAHULLA	Redundant record	T03	3706	7-8	N/A
270	GA057-003—	ANBALLY	Field system	T08	3713	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
271	GA056-011—	BALLYDONNELLA N	Ringfort - unclassified	T01	3728	7-8	Slight
272	GA043-072—	CUMMER	Enclosure	T08	3748	7-8	Slight
273	GA057-001—	ANBALLY	Castle - tower house	T08	3749	7-8	Slight
274	GA057-001001-	ANBALLY	Bawn	T08	3755	7-8	Slight
275	GA056-070001-	GRANGE (Annaghdown ED)	Church	T01	3761	7-8	Slight
276	GA056-070002-	GRANGE (Annaghdown ED)	Children's burial ground	T01	3764	7-8	Slight
277	GA057-001002-	ANBALLY	Bawn	T08	3784	7-8	Slight
278	GA056-084—	KILCOONA	Enclosure	T01	3797	7-8	Slight
279	GA057-086—	CORRANDRUM	Redundant record	T08	3804	0	N/A
280	GA056-049—	CARROWBEG NORTH (Liscanaun ED)	House - indeterminate date	T01	3806	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
281	GA057-105—	CURRYLAUR	Building	T08	3811	7-8	Slight
282	GA043-122—	RUSHEENS SOUTH	Quarry	T08	3815	7-8	Slight
283	GA057-093—	CORROFIN	Designed landscape feature	T08	3821	7-8	Slight
284	GA057-103—	CURRYLAUR	Redundant record	T08	3824	7-8	N/A
285	GA042-062—	CALTRAGH (Killover ED)	Enclosure	T04	3833	7-8	Slight
286	GA056-048—	CARROWBEG NORTH (Claretuam ED)	Redundant record	T01	3847	7-8	N/A
287	GA043-087—	GLENNAFOSHA	Ringfort - cashel	T08	3853	7-8	Slight
288	GA042-144—	GORTNAPORIA	Enclosure	T01	3856	7-8	Slight
289	GA042-209—	POLLNAHALLIA	Ringfort - cashel	T02	3856	7-8	Slight
290	GA042-209001-	POLLNAHALLIA	Souterrain	T02	3856	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
291	GA056-134—	TOMNAHULLA	Field system	T01	3857	7-8	Slight
292	GA056-071—	INISH	Mill - corn	T01	3875	7-8	Slight
293	GA057-092—	CORROFIN	Designed landscape feature	T08	3876	7-8	Slight
294	GA056-119—	MAUSREVAGH	Children's burial ground	T01	3879	7-8	Slight
295	GA056-134002-	TOMNAHULLA	House - indeterminate date	T01	3880	7-8	Slight
296	GA056-134001-	TOMNAHULLA	House - indeterminate date	T01	3887	7-8	Slight
297	GA042-207—	POLLNAHALLIA	Designed landscape feature	T02	3888	7-8	Slight
298	GA043-138—	CAHERHUGH	Ringfort - cashel	T04	3888	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
299	GA057-094—	CORROFIN	Designed landscape feature	T08	3920	7-8	Slight
300	GA056-010—	BALLYCASEY	Souterrain	T01	3920	7-8	Slight
301	GA057-104—	CURRYLAUR	Redundant record	T08	3941	7-8	N/A
302	GA056-053001-	COR AN DOLA	Church	T01	3952	7-8	Slight
303	GA042-145—	GORTNAPORIA	Well	T01	3954	4-6	Not Significant
304	GA056-053002-	COR AN DOLA	Graveyard	T01	3966	7-8	Slight
305	GA057-027—	AUCLOGGEEN,TO MNAHULLA	Enclosure	T07	3968	7-8	Slight
306	GA043-017—	CAHERHUGH	Country house	T04	3978	7-8	Slight
307	GA057-155—	TOMNAHULLA	Enclosure	T07	3983	7-8	Slight
308	GA057-095—	CORROFIN	Designed landscape feature	T08	3988	7-8	Slight
309	GA056-002001-	AUCLOGGEEN	Church	T01	3999	7-8	Slight

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
310	GA056-002002-	AUCLOGGEEN	Graveyard	T01	4008	7-8	Not Significant
311	GA057-025—	AUCLOGGEEN,TO MNAHULLA	Ringfort - cashel	T03	4009	7-8	Not Significant
312	GA057-025001-	AUCLOGGEEN	House - indeterminate date	T03	4009	7-8	Not Significant
313	GA057-025002-	AUCLOGGEEN	Hut site	T03	4009	7-8	Not Significant
314	GA042-064002-	CALTRAGH (Killover ED)	Cairn - unclassified	T04	4025	7-8	Not Significant
315	GA056-087—	KILCOONA	Cairn - unclassified	T01	4044	7-8	Not Significant
316	GA042-069—	CALTRAGH (Killover ED)	Ringfort - unclassified	T04	4048	7-8	Not Significant
317	GA042-064005-	CALTRAGH (Killover ED)	Cross	T04	4053	7-8	Not Significant
318	GA042-238—	POLLNAHALLIA	Enclosure	T02	4060	7-8	Not Significant
319	GA057-026—	AUCLOGGEEN,TO MNAHULLA	Ringfort - unclassified	T03	4062	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
320	GA057-157—	TOMNAHULLA	Redundant record	T03	4068	7-8	N/A
321	GA043-121—	RUSHEENS SOUTH	Religious house - unclassified	T08	4073	7-8	Not Significant
322	GA042-064—	CALTRAGH (Killover ED)	Cairn - unclassified	T04	4075	7-8	Not Significant
323	GA042-064001-	CALTRAGH (Killover ED)	Designed landscape - folly	T04	4075	7-8	Not Significant
324	GA057-047—	BALLYNACREG SOUTH	Cairn - unclassified	T08	4081	7-8	Not Significant
325	GA057-090—	CORROFIN	Enclosure	T08	4087	7-8	Not Significant
326	GA056-001—	AUCLOGGEEN	Children's burial ground	T01	4097	7-8	Not Significant
327	GA056-050001-	CARROWBEG SOUTH (Claretuam ED)	Church	T01	4101	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
328	GA043-129002-	TOBERMINA	Castle - unclassified	T04	4116	7-8	Not Significant
329	GA043-103—	KNOCKACARRIGE EN	Ringfort - rath	T04	4118	7-8	Not Significant
330	GA042-064004-	CALTRAGH (Killover ED)	Cairn - unclassified	T04	4119	7-8	Not Significant
331	GA043-129001-	TOBERMINA	Ringfort - cashel	T04	4120	7-8	Not Significant
332	GA056-009—	BALLYCASEY	Enclosure	T01	4126	7-8	Not Significant
333	GA056-050002-	CARROWBEG SOUTH (Claretuam ED)	Burial ground	T01	4142	7-8	Not Significant
334	GA042-068—	CALTRAGH (Killover ED)	Enclosure	T04	4144	7-8	Not Significant
335	GA042-221—	TOBERMINA	Designed landscape - summer house	T04	4154	0	Imperceptible
336	GA042-067—	CALTRAGH (Killover ED)	Enclosure	T04	4159	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
337	GA042-063—	CALTRAGH (Killower ED)	Designed landscape - folly	T04	4193	7-8	Not Significant
338	GA056-063—	COR AN DOLA	Ringfort rath	T01	4206	7-8	Not Significant
339	GA056-063001-	COR AN DOLA	Souterrain	T01	4206	7-8	Not Significant
340	GA042-061—	CALTRAGH (Killower ED)	Ringfort rath	T04	4250	7-8	Not Significant
341	GA042-061001-	CALTRAGH (Killower ED)	Souterrain	T04	4250	7-8	Not Significant
342	GA042-066—	CALTRAGH (Killower ED)	Enclosure	T04	4252	7-8	Not Significant
343	GA057-089001-	CORROFIN	Bridge	T08	4262	7-8	Not Significant
344	GA056-086—	KILCOONA	Cairn - unclassified	T01	4280	7-8	Not Significant
345	GA056-005—	BALLINDUFF (Clare By.)	Souterrain	T01	4281	7-8	Not Significant
346	GA056-003—	BALLINDUFF (Clare By.)	Castle - tower house	T01	4283	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
347	GA057-161—	CORROFIN	Road - road/trackway	T08	4288	7-8	Not Significant
348	GA057-091—	CORROFIN, TURLOUGHMARTIN	Bridge	T08	4297	7-8	Not Significant
349	GA069-008—	CARROWBEG SOUTH (Liscananaun ED)	Redundant record	T01	4299	7-8	N/A
350	GA042-231—	POLLNAHALLIA	Hillfort	T02	4303	7-8	Not Significant
351	GA057-089—	CORROFIN	Castle - tower house	T08	4306	7-8	Not Significant
352	GA042-225—	CASTLEHACKET	Designed landscape - summer house	T04	4310	0	Imperceptible
353	GA043-023—	CARROWBEG SOUTH (Claretuam ED)	Redundant record	T04	4319	7-8	N/A
354	GA057-172—	CORROFIN	Burial ground	T08	4319	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
355	GA056-015—	BALLYDONNELLA N	Mound	T01	4341	7-8	Not Significant
356	GA056-007—	BALLYCASEY	Ringfort - unclassified	T01	4346	7-8	Not Significant
357	GA057-077—	CARROWNROOAU N	Redundant record	T08	4374	7-8	N/A
358	GA042-033—	BOHERCUILL	Ringfort - cashel	T02	4375	7-8	Not Significant
359	GA056-017—	BALLYDONNELLA N	House - indeterminat e date	T01	4379	7-8	Not Significant
360	GA042-143—	GORTNAPORIA	Ringfort - cashel	T02	4402	7-8	Not Significant
361	GA057-077001-	CARROWNROOAU N	Redundant record	T08	4412	7-8	N/A
362	GA043-104—	KNOCKACARRIGE EN	Ringfort - rath	T04	4416	7-8	Not Significant
363	GA056-017001-	BALLYDONNELLA N	House - indeterminat e date	T01	4416	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
364	GA043-110—	KNOCKACARRIGE EN	Quarry	T04	4428	7-8	Not Significant
365	GA056-118—	MAUSREVAGH	Ringfort cashel	T01	4444	7-8	Not Significant
366	GA056-008—	BALLYCASEY	Enclosure	T01	4446	7-8	Not Significant
367	GA043-105002-EN	KNOCKACARRIGE EN	Ringfort rath	T04	4451	7-8	Not Significant
368	GA043-088—	GLENNAFOSHA	Ringfort rath	T08	4456	7-8	Not Significant
369	GA043-088001-	GLENNAFOSHA	Children's burial ground	T08	4456	7-8	Not Significant
370	GA042-226—	POLLNAHALLIA	Redundant record	T02	4458	1-3	N/A
371	GA043-092—	GLENNAFOSHA,RU SHEENS NORTH	Earthwork	T08	4467	7-8	Not Significant
372	GA056-006—	BALLINDUFF (Clare By.)	House 18th/19th century	T01	4468	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
373	GA056-014—	BALLYDONNELLA N	Ringfort - unclassified	T01	4472	7-8	Not Significant
374	GA057-174—	BALLYBANAGHER	Chapel	T08	4474	7-8	Not Significant
375	GA043-130—	TOBERMINA	Designed landscape - tree-ring	T04	4479	0	Imperceptible
376	GA043-073—	CUMMER	Crannog	T08	4482	7-8	Not Significant
377	GA042-065—	CALTRAGH (Killover ED)	Enclosure	T04	4503	7-8	Not Significant
378	GA042-142—	GORTNAPORIA	Earthwork	T02	4515	7-8	Not Significant
379	GA042-142001-	GORTNAPORIA	Souterrain	T02	4515	7-8	Not Significant
380	GA043-105001-	KNOCKACARRIGE EN	Ringfort - rath	T04	4515	7-8	Not Significant
381	GA056-051—	CASTLECREEVY	Redundant record	T01	4524	7-8	N/A
382	GA043-111—	KNOCKACARRIGE EN	House - indeterminate date	T04	4537	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
383	GA043-106—	KNOCKACARRIGE EN	Ringfort rath	- T04	4570	7-8	Not Significant
384	GA043-107—	KNOCKACARRIGE EN	Ringfort rath	- T04	4580	7-8	Not Significant
385	GA043-033006-	CARROWNTemple (Clare By.),KNOCKACARRIGEEN,POLLATURK OR NEWGARDEN	Hillfort	T04	4589	7-8	Not Significant
386	GA042-032—	BOHERCUILL	Ringfort rath	- T02	4610	7-8	Not Significant
387	GA042-032001-	BOHERCUILL	House indeterminate date	- T02	4610	7-8	Not Significant
388	GA043-118—	RUSHEENS NORTH	Enclosure	T08	4610	1-3	Not Significant
389	GA056-004—	BALLINDUFF (Clare By.)	Designed landscape feature	T01	4611	7-8	Not Significant
390	GA043-033002-	CARROWNTemple (Clare By.),KNOCKACARR	Ringfort cashel	- T04	4616	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
		IGEEN,POLLATURK OR NEWGARDEN					
391	GA043-033003-	POLLATURK OR NEWGARDEN	House - indeterminate date	T04	4616	7-8	Not Significant
392	GA043-033004-	POLLATURK OR NEWGARDEN	House - indeterminate date	T04	4616	7-8	Not Significant
393	GA043-033001-	CARROWNTemple (Clare By.),KNOCKACARR IGEEN,POLLATURK OR NEWGARDEN	Cairn - unclassified	T04	4620	7-8	Not Significant
394	GA043-091—	GLENNAFOSHA	Redundant record	T08	4625	7-8	N/A
395	GA043-033005-	CARROWNTemple (Clare By.)	Cairn - unclassified	T04	4634	7-8	Not Significant
396	GA056-116—	MAUSREVAGH	Enclosure	T01	4639	7-8	Not Significant
397	GA069-010—	CASTLECREEVY	Castle - unclassified	T01	4660	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
398	GA043-024—	CARROWBEG SOUTH (Claretuam ED)	Children's burial ground	T04	4664	0	Imperceptible
399	GA057-087—	CORRANDRUM	Cist	T08	4666	7-8	Not Significant
400	GA042-035—	BOHERCUILL	Redundant record	T02	4670	7-8	N/A
401	GA042-093—	CAVE (Clare By.)	Cairn - burial cairn	T04	4694	7-8	Not Significant
402	GA042-093001-	CAVE (Clare By.)	Cist	T04	4694	7-8	Not Significant
403	GA057-142—	SLIEVEFIN	Enclosure	T07	4705	7-8	Not Significant
404	GA056-012—	BALLYDONNELLAN	Ringfort - unclassified	T01	4710	7-8	Not Significant
405	GA056-117—	MAUSREVAGH	Ringfort - unclassified	T01	4711	7-8	Not Significant
406	GA043-032001-	CARROWNTemple (Clare By.)	Children's burial ground	T04	4720	0	Imperceptible
407	GA043-032—	CARROWNTemple (Clare By.)	Ringfort - rath	T04	4727	0	Imperceptible

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
408	GA070-034—	CARTRON (ED Annaghdown),SLEVEFIN	Ringfort - unclassified	T03	4758	7-8	Not Significant
409	GA070-034001-	SLEVEFIN	Souterrain	T03	4758	7-8	Not Significant
410	GA043-112—	KNOCKACARRIGEN	Field system	T04	4764	4-6	Not Significant
411	GA056-146—	AN MÁŠ	Enclosure	T01	4764	7-8	Not Significant
412	GA042-034—	BOHERCUILL	Watchtower	T02	4768	7-8	Not Significant
413	GA042-070—	CALTRAGH (Killower ED)	Cist	T04	4782	7-8	Not Significant
414	GA069-009—	CARTRON (ED Annaghdown)	Redundant record	T01	4840	7-8	N/A
415	GA042-092001-	CAVE (Clare By.)	Souterrain	T04	4844	7-8	Not Significant
416	GA042-092—	CAVE (Clare By.)	Ringfort - cashel	T04	4852	7-8	Not Significant
417	GA042-158—	KILWULLAUN	Ringfort - cashel	T02	4881	7-8	Not Significant
418	GA042-158001-	KILWULLAUN	Souterrain	T02	4881	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
419	GA042-158002-	KILWULLAUN	Children's burial ground	T02	4882	7-8	Not Significant
420	GA042-158003-	KILWULLAUN	House - indeterminate date	T02	4883	7-8	Not Significant
421	GA042-085—	CASTLEHACKET	Castle - hall-house	T04	4922	0	Imperceptible
422	GA042-085001-	CASTLEHACKET	Bawn	T04	4924	0	Imperceptible
423	GA042-085002-	CASTLEHACKET	Well	T04	4928	0	Imperceptible
424	GA042-012—	BALLYBAUN (Clare By.)	Ringfort - cashel	T01	4928	7-8	Not Significant
425	GA057-023—	ARDSKEA MORE	Redundant record	T08	4931	7-8	N/A
426	GA043-114004-	POLLATURK OR NEWGARDEN	Redundant record	T04	4940	0	N/A
427	GA056-110—	LUIMNAGH WEST	Ringfort - unclassified	T01	4950	7-8	Not Significant

MAP ID	SMR	TD.	TYPE	TURBINE ID	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
428	GA056-110001-	LUIMNAGH WEST	Children's burial ground	T01	4950	7-8	Not Significant
429	GA043-114002-	POLLATURK OR NEWGARDEN	Graveyard	T04	4963	0	Imperceptible
430	GA043-114001-	POLLATURK OR NEWGARDEN	Church	T04	4964	0	Imperceptible
431	GA057-083—	CORBALLY SOUTH	Souterrain	T08	4966	7-8	Not Significant
432	GA042-107—	CROSSURSA	Well	T01	4987	7-8	Not Significant
433	GA042-013—	BALLYBAUN (Clare By.)	Redundant record	T01	4992	7-8	N/A
434	GA042-086—	CASTLEHACKET	Enclosure	T04	4993	0	Imperceptible
435	GA056-046—	CALTRAGH (Killeany ED)	Mound	T01	4996	7-8	Not Significant

### Mitigation Measures

The distance of recorded monuments from the proposed turbines in addition to the low-visibility /sub-surface nature of some of the monuments will mitigate potential visual effects. Additionally many of these monuments are located on private land which are not formally accessible to the public. It is also noted that natural screening, boundaries, buildings and vegetation not taken into consideration in the ZTV will potentially screen some visual effects. Photowire PWVP-K demonstrates how natural screening and buildings at a distance of c. 4.5km from the proposed turbines will screen some visual effects. Similarly PWVP-R, at a distance of c. 2.6km west of the nearest proposed turbine (T1), demonstrates how boundaries, vegetation and buildings will screen visual effects.

### Residual Effect

The residual effect will be the same as those identified in the table of Potential Effects.

### Significance of Effects

The overall significance of effects range from Imperceptible to Moderate.

### Proposed Grid Connection

Thirteen recorded monuments are located within 100m of the proposed underground cabling route, while none are located in the immediate vicinity of the proposed onsite 110kV substation or associated temporary construction compound. The nearest recorded monument to the proposed onsite 110kV substation comprises a field system which is situated c. 175m to the west. The field system comprises an upstanding yet low-visibility monument comprising a series of low stone walls in a large field of rough pasture. Visual effects to the immediate setting of the monument will not occur, however, a change to its wider setting as a result of the proposed substation and temporary construction compound is acknowledged and is regarded as Slight given the low-visibility nature of the monument.

### Mitigation Measures

No mitigation measures provided.

### Residual Impact

The residual impact will be Slight.

### Significance of Effects

The overall significance of effects will be Slight.

## 13.4.4.4 Newly Recorded Monuments

### Identification of Effect

#### Proposed Wind Farm

One newly recorded potential archaeological monument was noted within the Proposed Wind Farm site during the walk-over survey. It comprises a sub-circular possible enclosure which is situated towards the east end of the Proposed Wind Farm site. The enclosure is located c. 46m east of a proposed new road and c. 78m south-east of a proposed temporary construction compound. Visual effects to the

immediate setting of the possible monument will not occur, however, a change to its wider setting as a result of the Proposed Wind Farm is acknowledged and is regarded as Slight.

#### **Proposed Grid Connection**

No newly detected monuments were noted in the area of the proposed onsite 110kV substation and associated temporary construction compound or within 100m the proposed underground cabling route outside of the Proposed Wind Farm site. The nearest newly detected monument comprises the possible enclosure which is located c. 915m to the east of the proposed onsite 110kV substation and temporary construction compound and c. 46m east of a proposed new road along which the proposed underground cabling route will extend. Visual effects from the underground cabling route will not occur, while a change to the wider setting of the possible monument as a result of the proposed substation and compound is acknowledged and is regarded as Slight.

#### Mitigation Measures

No mitigation measures provided.

#### Residual Impact

The residual impact will be Slight.

#### Significance of Effects

The overall significance of effects will be Slight.

### 13.4.4.5 **Sub-surface Archaeology**

Potential visual effects to sub-surface archaeology which may exist within the Site are negated by the sub-surface nature of such features that do not have any above-ground elements on which the Proposed Project will have a visual effect.

### 13.4.4.6 **Protected Structures**

#### Identification of Effect

##### **Proposed Wind Farm**

No Protected Structures subject to statutory protection are located within the Proposed Wind Farm site.

A total of 27 no. protected structures are located within 5km of the nearest proposed turbine. The nearest protected structure comprises a thatched structure (Ref. 4003) in Claremorris, c. 1.1km north-west of T1. The ZTV shows that the majority of the structures are located in areas where 7-8 turbines will theoretically be visible with only one structure located in an area where 4-6 turbines will theoretically be visible.

Both the distance to the nearest turbine and the number of turbines visible from each asset are used to arrive a level of potential effect on setting. Potential effects on setting as detailed in Table 13-14 below are based on a theoretical model and therefore the worst-case scenario in that natural screening, boundaries, buildings and vegetation are not taken into account in the ZTV model, and in reality the potential effect is likely to be less than that identified.

##### **Proposed Grid Connection**

No Protected Structures are located within 100m of either side of the proposed underground cabling route or in the vicinity of the proposed onsite 110kV substation and temporary construction compound. The nearest RPS structure, Castlehackett School (Ref. 4000), is located c. 3km north-west of the proposed onsite 110kV substation. No potential effects to the immediate setting of this or any other Protected Structures are identified. A potential change to the wider setting in which the protected structures are located is acknowledged but is regarded as Not Significant.

Table 13-14: Potential visual effects on RPS structures within 5km of the nearest proposed turbine.

RPS ID	NAIH REG.	STRUCTURE	LOCATION	TURBINE	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically visible	Theoretical Significance of Effects
4008	30405619	Thatched structure	BUNATOVER	T01	1846	7-8	Moderate
4005	30405615	Thatched structure	BUNATOVER	T01	1620	7-8	Moderate
3948	30405625	Thatched structure	BALROBUCK BEG	T01	2773	7-8	Slight
3730	30406901	Thatched structure	CASTLECREEVY	T01	4627	7-8	Not significant
72	30405611	Church	Corrandulla	T01	4105	7-8	Not significant
76	30405614	Mill house	Bunatover	T01	2259	4-6	Slight
821	0	Thatched structure	Balroebuckbeg	T01	2677	7-8	Slight
73	30405612	Monastery	Corrandulla	T01	4160	7-8	Not significant
4002	30405606	Thatched structure	CLUIDREVAGH	T01	1361	7-8	Moderate
4003	30405608	Thatched structure	CAHERMORRIS	T01	1184	7-8	Moderate
3946	30405623	Thatched structure	BALROBUCK BEG	T01	3073	7-8	Slight
77	30405622	Mill race	Ballinaduff	T01	3865	7-8	Slight
78	30405621	Mill house	Ballinaduff	T01	3882	7-8	Slight

RPS ID	NIAH REG.	STRUCTURE	LOCATION	TURBINE	DISTANCE TO TURBINE (m)	No. of Turbines Theoretically visible	Theoretical Significance of Effects
75	30405634	Thatched structure	Corrandulla	T01	4047	7-8	Not significant
74	0	Thatched structure	Corrandulla	T01	4009	7-8	Not Significant
4001	30405605	Thatched structure	CLUIDREVAGH	T01	1306	7-8	Moderate
3947	30405624	Thatched structure	BALROBUCK	T01	2776	7-8	Slight
3945	30405620	Thatched structure	BALROBUCK BEG	T01	2308	7-8	Slight
4006	30405616	Thatched structure	BUNATOBBER	T01	1583	7-8	Moderate
3729	30406902	Thatched structure	CASTLECREEVY	T01	4704	7-8	Not significant
4004	30405613	Thatched structure	BUNATOBBER	T01	2301	7-8	Slight
4000	30405604	School	BIGGERA BEG	T02	1488	7-8	Moderate
4504		House	BIGGERA BEG	T02	1952	7-8	Moderate
3997	30404220	Thatched structure	CARHEENS	T04	2496	7-8	Slight
80	30405704	Gate lodge	Tuam	T08	4467	7-8	Not Significant
79	30405703	Church	Corrofin	T08	4470	7-8	Not Significant
3909	30405702	Bridge	TURLOUGHMARTIN	T08	4350	7-8	Not Significant

## Mitigation Measures

It is noted that natural screening, boundaries, buildings and vegetation will potentially screen visual effects.

## Residual Effect

Since no mitigation measures are being proposed the residual effect will range from Not Significant to Moderate.

## Significance of Effects

The overall significance of effects will range from Not Significant to Moderate. In reality the effect will be less severe since the ZTV model does not take natural screening and buildings into consideration which will alleviate if not remove the impact on setting altogether in some instances.

### 13.4.4.7 NIAH Structures and Historic Gardens

#### Identification of Effect

##### **Proposed Wind Farm**

No NIAH structures are located within the Proposed Wind Farm site.

Twenty-nine structures listed in the NIAH are located within 5km of the nearest proposed turbine, many of which are also listed in the RPS. The ZTV demonstrates theoretical visibility of 7-8 turbines from all but one of the NIAH structures.

Six historic gardens are located within 5km of the nearest proposed turbine. Some of these are associated with the NIAH structures, while others may have no surviving associated structures. Similarly, in some instances there may be no surviving garden features. The nearest historic garden comprises that associated with Cahermorris House, c. 1km from the nearest proposed turbine, T1. The ZTV also demonstrates theoretical visibility of 7-8 turbines from all of the historic gardens within the 5km study area.

Both the distance to the nearest turbine and the number of turbines visible from each NIAH structure and garden are used to arrive a level of potential effect on setting (Table 13-15 and Table 13-16). Potential effects on setting as detailed in the tables below are based on the worst-case scenario in that natural screening, boundaries, buildings and vegetation are not taken into account in the ZTV model and in reality, the potential effect is likely to be less than that identified.

Table 13-15: Potential visual effects on NIAH structures within 5km of the nearest proposed turbine.

NIAH Reg.	Date	Structure	Townland	Turbine No.	Distance To Turbine (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
30405608	1780 - 1820	house	CAHERMORRIS	T01	1199	7-8	Moderate
30405617	1870 - 1890	demesne walls/gates/railings	CAHERMORRIS	T01	1210	7-8	Moderate
30405605	1780 - 1820	house	CLUIDREVAGH	T01	1312	7-8	Moderate
30405606	1780 - 1820	house	CLUIDREVAGH	T01	1366	7-8	Moderate
30405604	1840 - 1850	school	BIGGERA BEG	T02	1491	7-8	Moderate
30405616	1780 - 1820	house	BUNATOBBER	T01	1578	7-8	Moderate
30405615	1780 - 1820	house	BUNATOBBER	T01	1613	7-8	Moderate
30405619	1780 - 1820	house	BUNATOBBER	T01	1834	7-8	Moderate

NIAH Reg.	Date	Structure	Townland	Turbine No.	Distance To Turbine (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
30404303	1780 - 1820	house	GARRAUN SOUTH (CLARE BY)	T04	1842	7-8	Moderate
30405614	1820 - 1840	mill manager's house	BUNATOBBER	T01	2235	1-3	Not Significant
30405613	1780 - 1820	house	BUNATOBBER	T01	2304	7-8	Slight
30405620	1780 - 1820	house	BALROBUCK BEG	T01	2321	7-8	Slight
30404220	1780 - 1820	house	CARHEENS	T04	2499	7-8	Slight
30405625	1780 - 1820	house	BALROBUCK BEG	T01	2768	7-8	Slight
30405624	1780 - 1820	house	BALROBUCK BEG	T01	2770	7-8	Slight
30405623	1780 - 1820	house	BALROBUCK BEG	T01	3059	7-8	Slight
30405626	1780 - 1820	house	BALROBUCK MORE	T01	3231	7-8	Slight

NIAH Reg.	Date	Structure	Townland	Turbine No.	Distance To Turbine (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
30405627	1780 - 1820	house	BALROBUCK MORE	T01	3289	7-8	Slight
30405622	1780 - 1800	mill (water)	GRANGE (ED ANNAGHDOWN)	T01	3869	7-8	Slight
30405621	1830 - 1840	miller's house	INISH	T01	3872	7-8	Slight
30405634	1780 - 1820	house	CASTLECREEVY	T01	4036	7-8	Not Significant
30405611	1830 - 1835	church/chapel	CARROWBEG SOUTH (ED LISCANANAUN)	T01	4100	7-8	Not Significant
30405612	1840 - 1860	monastery	CARROWBEG SOUTH (ED LISCANANAUN)	T01	4149	7-8	Not Significant
30405632	1780 - 1820	house	SHANBALLY (CLARE BY)	T01	4163	7-8	Not Significant
30405702	1650 - 1850	bridge	CORROFIN,TURLOUGHMARTIN	T08	4341	7-8	Not Significant
30405703	1840 - 1845	church/chapel	BALLYBANAGHER	T08	4469	7-8	Not Significant

NIAH Reg.	Date	Structure	Townland	Turbine No.	Distance To Turbine (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effects
30406901	1780 - 1820	house	CASTLECREEVY	T01	4632	7-8	Not Significant
30406902	1780 - 1820	house	CASTLECREEVY	T01	4709	7-8	Not Significant
30405628	1780 - 1820	house	ANNAGH EAST	T01	4893	7-8	Not Significant

Table 13-16: Potential visual effects on historic gardens within 5km of the nearest proposed turbine.

Site Name	Turbine No.	Distance To Turbine (m)	No. of Turbines Theoretically Visible	Theoretical Significance of Effect
Cahermorris House	T01	1171	7-8	Moderate
Kilroe	T01	2998	7-8	Slight
Corrofin Lodge	T08	3390	7-8	Slight
Caherhugh House	T04	3902	7-8	Slight
Ballinduff Lodge	T01	4451	7-8	Not Significant
Ballybanagher House	T08	4813	7-8	Not Significant

### Proposed Grid Connection

No NIAH structures or historic gardens are located within 100m of the proposed underground cabling route or in the vicinity of the proposed onsite 110kV substation and temporary construction compound. As outlined above, the nearest structure comprises Castlehackett National School (NIAH Reg. 30405604) which is also a Protected Structure (Ref. 4000) and is c. 3km from the proposed onsite 110kV substation. The immediate setting of the NIAH structure will not be impacted, however, a potential change to its wider setting is acknowledged. This change is regarded as Not significant.

### Mitigation Measures

No mitigation measures are provided. It is noted that natural screening, boundaries, buildings and vegetation will potentially screen visual effects.

### Residual Effect

Since no mitigation measures are being proposed the residual impact will range from Not Significant to Moderate.

### Significance of Effects

The overall significance of effects will range from Not Significant to Moderate. In reality the effect will be less severe since the ZTV model does not take natural screening and buildings into consideration which will alleviate if not remove the impact on setting altogether in some instances.

## 13.4.4.8 Features of Local Cultural Heritage Merit

### Proposed Wind Farm

No upstanding structures or items of local cultural heritage merit are located within or adjacent to the Proposed Wind Farm therefore no potential visual effects to such features will occur.

### Proposed Grid Connection

No items of cultural heritage merit are located within or close to the proposed onsite 110kV substation and temporary construction compound therefore no potential visual effects to such features will occur. Four watercourse crossings with bridges/culverts (CH1-4) are located on the Proposed Grid Connection underground cabling route, some of which are indicated and named on the available historic mapping. Given the underground nature of the electrical cabling no potential visual effects to the bridges or culvert are identified.

## 13.5 Cumulative Impacts

Cumulative impact is defined as 'The addition of many small impacts to create one larger, more significant, impact' (EPA 2022). Cumulative effects encompass the combined effects of multiple developments or activities on a range of receptors. In this case, the receptors are the archaeological monuments and architectural/cultural heritage sites in the vicinity of the Proposed Project. The potential cumulative impacts between and the Proposed Project the other projects described in Chapter 2 of the EIAR, hereafter referred to as the other projects, have been considered in terms of impacts on archaeology and cultural heritage.

The projects considered in relation to the potential for in combination impacts arising from construction, operational and decommissioning phases of the Proposed Project and for which all relevant data was reviewed include those listed below:

### 13.5.1 Extant planning applications within 20km

A list of all extant planning applications within 20km of the Proposed Project was considered in terms of cumulative effects. The majority of these applications comprise agricultural and residential developments such as single dwelling houses, and agricultural buildings. Such developments if located in proximity to archaeological monuments or other cultural heritage assets may have the potential to directly or indirectly effect such features. It is considered, however, that the planning authority would have regard to the protection of any known or unknown cultural heritage sites through the requirement for assessments or implementation of appropriate mitigation measures through the planning process or the discharge of conditions attached to a grant of planning permission, where relevant.

Many of the extant applications are relatively small and localised in nature.

### 13.5.2 Other Wind Farms

A number of other existing, permitted or proposed wind farms are located within 20km of the Proposed Project as detailed in Chapter 2, Section 2.5.3.

These wind farms are located as separate clusters to the north (Shancloon – Proposed) and north-east (Cloonlusk– Operational and Cloonascragh – Permitted, Cooloo – Proposed, Clonberne - Proposed). The wind farms were considered cumulatively with the Proposed Project and in particular with regard to potential cumulative visual effects.

There are several singular turbines located within the 20km. Whilst it is acknowledged these singular turbines exist, due to the distance beyond 5km and the height of the singular turbines below 50m, these turbines have been screened out from assessment. There is no potential for significant cumulative effects to arise between these singular turbines and the Proposed Project due to scale and set back distance.

### 13.5.3 Cumulative Effects (Direct Effects – Construction stage)

The addition of other projects to the Proposed Project was considered in order to assess Cumulative Effects. These included all other wind farms within 20km of the Proposed Project. Direct effects for the Proposed Project are considered to be confined to within the Site and relate to construction effects.

#### 13.5.3.1 Cumulative effects (direct) considering other windfarms within 20km

##### 13.5.3.1.1 Cumulative effects to UNESCO World Heritage sites (tentative), National Monuments in State Care, Recorded Monuments, NIAH and RPS

No UNESCO World Heritage Sites, National Monuments in State Care, RPS structures or NIAH sites are located within the footprint of the Proposed Project and therefore no direct effects on these resources were identified when considering the Proposed Project alone. When the Proposed Project is added to other projects therefore, it does not result in direct cumulative effects since none were identified in the first place. The aforementioned cultural heritage assets are located away from the Site and therefore are not capable of being directly impacted by the Proposed Project. No cumulative effects will occur therefore.

Twenty recorded monuments are located within the Proposed Wind Farm site. The monuments are not, however, located in proximity to proposed turbines or other Proposed Wind Farm infrastructure. No direct effects to recorded monuments resulting from the Proposed Wind Farm are therefore identified. Thirteen recorded monuments are located within 100m of the Proposed Grid Connection underground cabling route, while none are located in the immediate vicinity of the proposed onsite 110kV substation or associated temporary construction compound. No direct effects to recorded monuments resulting from the Proposed Grid Connection are identified.

As no direct effects to recorded monuments as a result of the Proposed Project are identified no cumulative effects will occur when considered with other existing, permitted and proposed wind farms.

#### 13.5.3.1.2 **Cumulative effects on potential sub-surface archaeology**

Potential direct effects identified at the construction stage of the Proposed Project are those which may occur to hitherto unknown sub-surface archaeological finds, features or deposits. This potential effect was identified as being permanent, negative and significant. After the mitigation measures are implemented, however, these potential effects will be Not Significant. The overall significance of effects is therefore Not Significant.

The same potential construction stage effect could be identified for the other wind farm projects since groundworks could impact on hitherto unknown archaeological, finds, features or deposits or other cultural heritage assets. In this regard there could potentially be a cumulative effect when the Proposed Project is added to the other wind farm sites. Mitigation measures seek to alleviate such negative effects if not remove the effect altogether and therefore there will be no significant cumulative effects on sub-surface remains.

If the mitigation measures prescribed in this EIAR are implemented then cumulative direct effects to unknown sub-surface archaeology will not occur, regardless of the other projects within 20km of the Proposed Project.

### 13.5.4 **Cumulative Effects (Indirect Effects – Operational Stage)**

Indirect effects on setting occur at the operational stage of the development (when turbines are operational). In this regard in order to assess overall cumulative effects on archaeology and cultural heritage, the Proposed Project is considered in the context of its operation in combination with other wind farms within 20km.

#### 13.5.4.1 **UNESCO World Heritage sites (tentative)**

No UNESCO World Heritage Sites (WHS) or those on the Tentative list are located within 20km of the nearest proposed turbine. No potential effects to the setting of such sites as a result of the Proposed Project are therefore identified. No potential cumulative effects will therefore occur to this aspect of the Cultural Heritage resource when considering the Proposed Project with the other existing, permitted and proposed wind farms within 20km.

#### 13.5.4.2 **National Monuments in State Care**

Three National Monuments in State Care and five monuments subject to a Preservation Order are located within 10km of the nearest proposed turbine. The ZTV indicates theoretical visibility of 7-8 turbines from the locations of all National Monuments and those subject to a Preservation Order within 10km of the nearest proposed turbine. A change to the immediate setting of the National Monuments will not occur, however, a change to their wider setting in which the monument is located is acknowledged. This is considered to be Not Significant.

Three monuments subject to a preservation order (1/1991, 2/1991 and 3/1991) at Cahermorris townland are located within 1km of the nearest proposed turbine, T1. The ZTV demonstrates theoretical visibility of 7-8 proposed turbines from the area of the monuments. While the immediate setting of the monuments will not be impacted a change to their wider setting will occur and is considered to be Slight-Not Significant given their poorly preserved remains.

When considered cumulatively with other wind farms within 20km the ZTV demonstrates theoretical visibility of the Proposed Project turbines and the permitted turbine at Cloonascragh and the operational Cloonlusk turbines to the north-east. It also demonstrates theoretical visibility of some of the proposed Cooloo turbines to the north-east and the proposed Shancloon turbines to the north. In this regard there is potential for cumulative impacts to the wider setting of the National Monuments and those subject to a Preservation Order within the 10km study area. No cumulative effects to the immediate setting of the monuments is identified, however, as neither the Proposed Wind Farm turbines or the other existing, permitted or proposed wind farms are located immediately adjacent to same, and in this regard potential cumulative effects to setting are not regarded as significant.

### 13.5.4.3 Recorded Monuments

Twenty recorded monuments are located within the Proposed Wind Farm site while a total of four hundred and thirty-five (435) recorded monuments are located within 5km of the nearest proposed turbine. This number includes the monuments located within the Proposed Wind Farm site. The monuments within the 5km study area were overlaid on the ZTV to ascertain what number of turbines may be visible from their locations. The ZTV shows that 415 of the 435 monuments are located in areas where 7-8 turbines will theoretically be visible. The overall significance of effects ranges from Imperceptible to Moderate. In reality the effect will be less severe due to natural screening, boundaries, buildings and vegetation, which will alleviate if not remove the impact on setting in some instances. Additionally the distance of recorded monuments from the proposed turbines and the low-visibility nature of some monuments will minimise potential visual effects.

When considered cumulatively with the other operational, permitted and proposed wind farms it should be noted that none of the existing, permitted or proposed wind farms are within the 5km study area. The ZTV demonstrates that the Cloonascragh, Cloonlusk, Shancloon and some of the Cooloo turbines may be theoretically visible in addition to the Proposed Wind Farm turbines but at a distance in excess of 5km from same. While there is potential for cumulative impacts to the wider setting of recorded monuments, no significant visual effects are identified given the distance of the existing, permitted and proposed turbines to the monuments within 5km. No potential cumulative effects to the immediate setting of such monuments will occur.

### 13.5.4.4 Protected Structures and NIAH

No Protected Structures subject to statutory protection are located within the Proposed Wind Farm site. A total of 27 no. protected structures are located within 5km of the nearest proposed turbine. The nearest protected structure comprises a thatched structure (Ref. 4003) in Cahermorris, c. 1.1km north-west of T1 and 3km from the proposed onsite 110kV substation. The ZTV shows that the majority of the structures are located in areas where 7-8 turbines will theoretically be visible with only one structure located in an area where 4-6 turbines will theoretically be visible. The overall significance of effects will range from Not significant to Moderate. In reality the effect will be less severe since the ZTV model does not take natural screening and buildings into consideration which will alleviate if not remove the impact on setting altogether.

No NIAH structures are located within the Proposed Wind Farm site. Twenty-nine structures listed in the NIAH are located within 5km of the nearest proposed turbine, many of which are also listed in the RPS. The ZTV demonstrates theoretical visibility of 7-8 turbines from all but one of the NIAH structures. Six historic gardens are located within 5km of the nearest proposed turbine and the ZTV demonstrates theoretical visibility of all such sites. No NIAH structures or historic gardens are located

within 100m of the Proposed Grid Connection underground cabling route or in the vicinity of the proposed onsite 110kV substation and temporary construction compound. The overall significance of effects will range from Not Significant to Moderate. In reality the effect will be less severe since the ZTV model does not take natural screening and buildings into consideration which will alleviate if not remove the impact on setting altogether.

When considered cumulatively with the other operational, permitted and proposed wind farms it should be noted that none of the existing, permitted or proposed wind farms are within the 5km study area. The ZTV demonstrates that the Cloonscragh, Cloonlusk, Shancloon and some of the Cooloo turbines may be theoretically visible in addition to the Proposed Wind Farm turbines but at a distance in excess of 5km from same. In this regard there is potential for cumulative impacts to the wider setting of RPS and NIAH structures, however, no significant effects are identified and no potential cumulative effects to the immediate setting of such sites will occur.

## 13.6 Decommissioning Phase

There will be no significant potential effects to the archaeological, architectural and cultural heritage environment during the decommissioning of the Proposed Project. Any potential direct effects will already have been resolved through mitigation measures during the construction phase. Therefore there is no potential for any cumulative effects to arise during the decommissioning phase.

## 13.7 Conclusion

This Cultural Heritage chapter was prepared by Tobar Archaeological Services Ltd. It presents the results of an archaeological, architectural and cultural heritage impact assessment of the Proposed Project. The assessment was based on desktop research, field survey, GIS based mapping, ZTV and was also assisted by representative photomontages and photowire images. A detailed examination of the available baseline data was undertaken in addition to a comprehensive site inspection. The latter comprised a walk-over survey of the Proposed Wind Farm site and any proposed infrastructure therein and a windscreen survey and walk-over survey of the Proposed Grid Connection.

Where potential impacts have been identified, such as to potential sub-surface archaeology, appropriate mitigation measures have been recommended in order to minimise any such impacts. Recommended mitigation includes a 30m buffer zone around a newly recorded possible enclosure, pre-development archaeological testing of the Proposed Project infrastructure (turbine bases, hardstands, compounds, new roads, grid connection in undisturbed ground, etc) and archaeological monitoring during the construction stage of the Proposed Project.

Potential indirect effects on the setting of any UNESCO World Heritage Sites and those on a Tentative List within 20km, National Monuments within 10km, recorded monuments within 5km and RPS/NIAH structures within 5km were included in order to assess potential effects on setting in the wider landscape. No UNESCO WHS or those on a Tentative List are located within 20km of the nearest proposed turbine. The ZTV demonstrates theoretical visibility of the proposed turbines from the majority of cultural heritage assets within 5km and from National Monuments and those subject to a preservation order within 10km. Both the distance to the nearest turbine and the number of turbines visible from each cultural heritage asset were used to arrive a level of potential effect on setting. Potential effects on setting are based on the worst case scenario in that natural screening, boundaries, buildings and vegetation are not taken into account in the ZTV model and in reality the potential effect is likely to be less. Furthermore, many of these monuments may not be readily discernible in the landscape which further ameliorates effects on setting.

All cultural heritage assets within 100m of either side of the Proposed Grid Connection underground cabling route were assessed for potential impacts to same. No direct impacts to the recorded archaeological, architectural or cultural heritage resource as a result of the Proposed Grid Connection underground cabling route have been identified. Mitigation measures are recommended where

deemed appropriate and include archaeological testing of greenfield areas along the Proposed Grid Connection underground cabling route and monitoring of ground works within the Zone of Notification for recorded monuments.

An assessment of potential cumulative effects was also undertaken taking into consideration other extant planning applications and operational and proposed wind farms within 20km. While some potential cumulative visual effects to the wider setting of cultural heritage assets is possible when considered with the operational and proposed wind farms, no significant cumulative impacts have been identified and no cumulative effects to the immediate setting of cultural heritage assets will occur.

## 13.8

## References

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