



APPENDIX 2-1

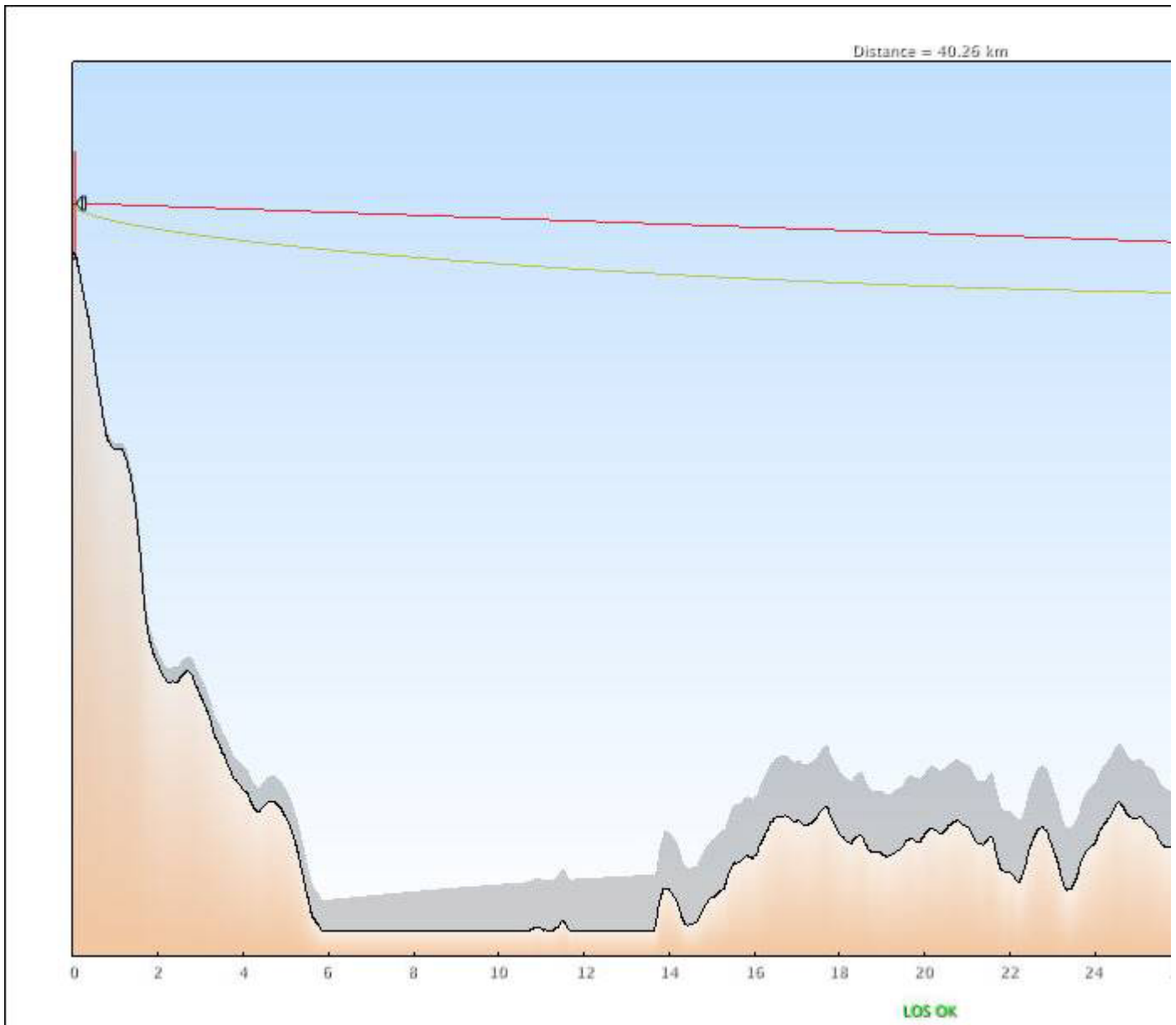
SCOPING RESPONSES

Eoin O'Sullivan

From: Peter O'Brien <peter.obrien@enet.ie>
Sent: 01 April 2019 08:49
To: Eoin O'Sullivan
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Eoin,

We would need to be clearing the turbines by about 15m but that shouldn't be an issue when you look at the path profile:



Regards,
Peter

From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: Monday, April 1, 2019 8:47 AM

To: Peter O'Brien <peter.obrien@enet.ie>
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Peter,

Thank for the coordinates. Does Airspeed have a specific set back distance requirement?

Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
www.mkoireland.ie



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From: Peter O'Brien <peter.obrien@enet.ie>
Sent: 01 April 2019 08:45
To: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Eoin,

We have one link passing through this area:

A-End: 52°49'42.39"N / 9°17'5.06"W
B-End: 52°31'24.85"N / 9°36'18.88"W

Regards,
Peter

From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: Friday, March 29, 2019 3:43 PM
To: Peter O'Brien <peter.obrien@enet.ie>
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Peter,

Further to my email below of the 28th February 2019, can you please let me know if Airspeed has links in the area outlined on the attached site location map?

Thank you for your time in this matter.

Kind Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Eoin O'Sullivan
Sent: 28 February 2019 16:00
To: 'peter.obrien@enet.ie' <peter.obrien@enet.ie>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Peter,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if Airspeed has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

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Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

MKO, Tuam Road, Galway. H91 VW84

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Eoin O'Sullivan

From: Roger Woods <rwoods@bai.ie>
Sent: 05 June 2019 12:03
To: Eoin O'Sullivan
Subject: RE: 170238 - Cahermurphy Two Wind Farm - Scoping Document

Hi Eoin

The BAI does not perform an in-depth analysis of the effect of wind turbines on FM networks. However, we are not aware of any issues from existing windfarms into existing FM networks. Also, the proposed windfarms are not located close to any existing or planned FM transmission sites.

Regards

Roger

Senior Executive Engineer
Broadcasting Authority of Ireland
2-5 Warrington Place
Dublin D02 XP29

Tel: 01 6441200
Fax: 01 6441299

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From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: Wednesday 5 June 2019 11:28
To: Roger Woods <rwoods@bai.ie>
Subject: Re: 170238 - Cahermurphy Two Wind Farm - Scoping Document

Dear Mr Woods,

Mid Clare Renewable Energy Designated Activity Company & Coillte Cuideachta Ghníomhaíochta Ainmnithe is investigating the potential for a proposed wind energy development at Cahermurphy and adjacent townlands, located in County Clare. McCarthy Keville O'Sullivan Ltd. (MKO) has been appointed as Environmental Consultants on this project and will be preparing an Environmental Impact Assessment Report Statement (EIAR) for the proposed Cahermurphy Two Wind Farm.

We have attached a cover letter and Scoping Document which provides details of the proposed project. As part of the EIA process for the proposed development, we would welcome any comments in relation to the proposed project.

Please note we have had to reduce the size of this file for email - if you have any queries, please do not hesitate to contact me.

Kind regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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Eoin O'Sullivan

From: info@birdwatchireland.ie
Sent: 05 June 2019 12:40
To: Eoin O'Sullivan
Subject: RE: 170238 - Cahermurphy Two Wind Farm - Scoping Document - FAO - Policy and Advocacy Team

Hi Eoin ,

We wish to acknowledge receipt of your email which has been forwarded to our Policy & Advocacy officer Oonagh Duggan .

Regards,

Michelle Kavanagh,

Membership Department.

BirdWatch Ireland

Unit 20 Block D | Bullford Business Campus | Kilcoole | Greystones | A63 RW83 | Co.Wicklow | Ireland

Tel: +353 (0)1 281 9878 email: mkavanagh@birdwatchireland.ie

Website: www.birdwatchireland.ie

BirdWatch Ireland - protecting wild birds and their habitats

BirdWatch Ireland - protecting birds and biodiversity

Cairde Éanlaith Éireann - ag caomhnú éin agus bithéagsúlacht

To join as a member, make a donation, volunteer or shop online visit www.birdwatchireland.ie or call us on +353 (0)1 281 9878

From: Eoin O'Sullivan [mailto:eosullivan@mkoireland.ie]

Sent: Wednesday 5 June 2019 11:28

To: info@birdwatchireland.ie

Subject: Re: 170238 - Cahermurphy Two Wind Farm - Scoping Document - FAO - Policy and Advocacy Team

Dear Mr O'Sullivan,

Mid Clare Renewable Energy Designated Activity Company & Coillte Cuideachta Gníomhaíochta Ainmnithe is investigating the potential for a proposed wind energy development at Cahermurphy and adjacent townlands, located in County Clare. McCarthy Keville O'Sullivan Ltd. (MKO) has been appointed as Environmental Consultants on this project and will be preparing an Environmental Impact Assessment Report Statement (EIAR) for the proposed Cahermurphy Two Wind Farm.

We have attached a cover letter and Scoping Document which provides details of the proposed project. As part of the EIA process for the proposed development, we would welcome any comments in relation to the proposed project.

Please note we have had to reduce the size of this file for email - if you have any queries, please do not hesitate to contact me.

Kind regards,

Eoin



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Eoin O'Sullivan

From: padraig.condon@bt.com
Sent: 28 February 2019 12:08
To: Eoin O'Sullivan
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Eoin,

I can confirm the planned development will have no impact on the BT Ireland microwave radio network.

Regards

Padraig Condon
Core Networks

Tel: +35314326819
Mobile number: +353 86 604 0636
BT Meetme: 0800 012 1176
E-mail padraig.condon@bt.com
<https://www.webjoin.com/>
Participant: 40342233#
Web: www.btireland.com



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From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 28 February 2019 09:34
To: Condon,PG,Padraig,NQE32E R
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Padraig,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if BT Communications has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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Eoin O'Sullivan

From: Martin O Donoghue <Martin.ODonoghue@comreg.ie>
Sent: 28 February 2019 14:34
To: Eoin O'Sullivan
Subject: RE: [Confidential] 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm
Attachments: List of Operators.xlsx

Hi Eoin,

Please find attached the list of operators within 15Km.

Kind Regards,

Martin O'Donoghue

Innealtóir Speictrim Raidió

Radio Spectrum Engineer

An Coimisiún um Rialáil Cumarsáide
Commission for Communications Regulation

1 Lárcheantar na nDugaí, Sráid na nGildeanna, BÁC 1, Éire, D01 E4X0.

One Dockland Central, Guild Street, Dublin 1, Ireland, D01 E4X0.

Teil | Tel +353 1 8049670

Rphost | Email martin.odonoghue@comreg.ie

Suíomh | Website www.comreg.ie

From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 28 February 2019 09:34
To: Martin O Donoghue <Martin.ODonoghue@comreg.ie>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Martin,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

We are consulting with all of the main telecoms operators, but would like to check if there are any other operators in the area – would it be possible to send this information on to me please?

Many thanks,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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Tá an ríomhphost seo, chomh maith le haon iatáin a bhaineann leis faoi rún agus d'fhéadfadh leis a bheith faoi phribhléid nó cosanta ó aon nochtadh. Is don seolaí(aithe) ainmnithe thuas amháin é. Níl sé ceadaithe go mbeidh rochtain ag éinne eile ar an ríomhphost seo. Más rud é nach tusa an faighteoir ainmnithe, ná cló amach, léigh, cóipeáil, nocht d'éinne nó bain úsáid as an eolas sa ríomhphost seo in aon tslí eile, le do thoil. Más rud é go bhfuair tú an ríomhphost seo trí earráid, dean teagmháil leis an seoltóir láithreach agus scríos an t-ábhar ina iomlán, bíodh sé i gcóip leictreonach nó chrua.

User	Contact	Email
Airspeed Communications L	peter.obrien@enet.ie	Peter
Clare County Council	umcmahon@clarecoco.ie	Urban
Eircom Ltd	seamus.okeeffe@openeir.ie	Seamus
Electricity Supply Board	dermot.hopkins@esbtelecoms.ie	Dermot
EOBO Ltd	accounts@bbnet.ie	
Imagine Networks Services	ronnie.oneill@imaginegroup.ie	Ronnie
Meteor Mobile Communicati	Paul.Marron@eir.ie	Paul
Ripple Communications Ltd	denis.herlihy@ripplecom.net	Denis
Three Ireland (Hutchison)	Gerry.Callan@three.ie	Gerry
Viatel Ireland Ltd	Donna.Fairbrother@viatel.com	Donna
Vodafone Ireland Ltd	David.Powders@vodafone.com	David



COMHAIRLE | CLARE
CONTAE AN CHLÁIR | COUNTY COUNCIL

13th June 2019

MKO
Tuam road
Galway
H91 VW84

Attention: Eoin O'Sullivan

Garth AO
Received on

17 JUN 2019

170238

Eoin O'Sullivan

Scope Reference No. 1/2019
Proposed Cahermurphy Two Wind Farm in the townland of
Cahermurphy and adjacent townlands in Co. Clare

A Chara,

I acknowledge receipt of your EIA Scoping document received on the 6th June 2019 in relation to the above.

The following bodies have been notified of your request, and have been advised that a submission or observation may be made to Clare County Council within a period of 4 weeks from the date of this letter:

The Minister for Housing, Planning and Local Government
The Minister for Culture, Heritage and the Gaeltacht
The Minister for Communications, Climate Action & Environment
Environmental Protection Agency
An Bord Pleanála
The Heritage Council
An Taisce
Regional Fisheries Board

Mise le meas

Planning Department,
Economic Development Directorate.

An Roinn Pleanála
An Stiúirthóireacht Forbairt Gheilleagrach

Áras Contae an Chláir, Bóthar Nua, Inis, Co. an Chláir, V95 DXP2

Planning Department
Economic Development Directorate

Áras Contae an Chláir, New Road, Ennis, Co. Clare, V95 DXP2





COMHAIRLE | CLARE
CONTAE AN CHLÁIR | COUNTY COUNCIL

Eoin O'Sullivan
Senior Environmental Scientist
McCarthy Keville O'Sullivan Ltd
Tuam Road
Galway
H91 VW84

Received on

31 JUL 2019

170238

Eoin O'Sullivan

30th July 2019

Re: Scope 1/2019
Proposed Cahermurphy Two Wind Farm
in the townland of Cahermurphy and adjacent townlands, Co. Clare

A Chara,

Introduction

I refer to the Scoping request and EIA Scoping Document received on 6th June 2019. In accordance with the requirements of Article 95 of the Planning and Development Regulations 2001, as amended, please see the following response.

Nature and Extent of Development

It is noted from your submission, and in accordance with the provisions of Section 173 of Part X of the Planning and Development Act 2000, as amended, that the subject scoping report pertains to an area of 492 ha, approximately, on which the applicants are install up to 10 no. wind turbines, access roads, electricity substation and wind farm control buildings, battery storage facility, borrow pits, electrical underground cabling for grid connection, temporary construction compound and a permanent anemometry mast.

Information to be contained in the Environment Impact Assessment Report, as set out under Schedule 6 of the Planning and Development Regulations 2001, as amended

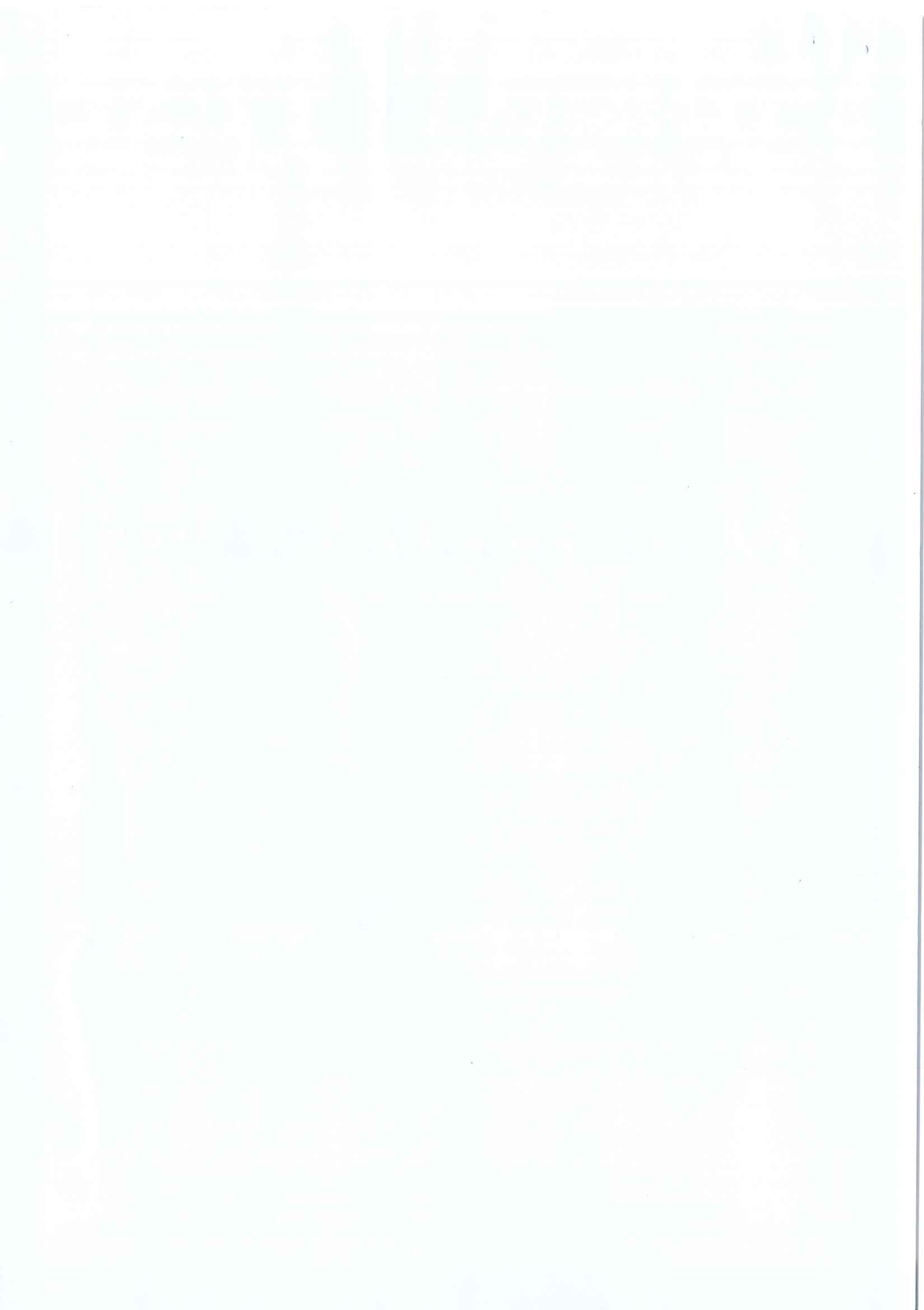
Section 171A of the Planning and Development Act 2000, as amended, states that environmental impact assessment 'means a process —

An Roinn Pleanála
An Stiúirthóireacht Forbairt Gheilleagrach

Áras Contae an Chláir, Bóthar Nua, Inis, Co. an Chláir, V95 DXP2

Planning Department
Economic Development Directorate

Áras Contae an Chláir, New Road, Ennis, Co. Clare, V95 DXP2



(a) consisting of —

(i) the preparation of an environmental impact assessment report by the applicant in accordance with this Act and regulations made thereunder,

(ii) the carrying out of consultations in accordance with this Act and regulations made thereunder,

(iii) the examination by the planning authority or the Board, as the case may be, of —

(I) the information contained in the environmental impact assessment report,

(II) any supplementary information provided, where necessary, by the applicant in accordance with *section 172(1D)* and *(1E)*, and

(III) any relevant information received through the consultations carried out pursuant to *subparagraph (ii)*,

(iv) the reasoned conclusion by the planning authority or the Board, as the case may be, on the significant effects on the environment of the proposed development, taking into account the results of the examination carried out pursuant to *subparagraph (iii)* and, where appropriate, its own supplementary examination, and

(v) the integration of the reasoned conclusion of the planning authority or the Board, as the case may be, into the decision on the proposed development, and

(b) which includes —

(i) an examination, analysis and evaluation, carried out by the planning authority or the Board, as the case may be, in accordance with this Part and regulations made thereunder, that identifies, describes and assesses, in an appropriate manner, in the light of each individual case, the direct and indirect significant effects of the proposed development on the following:

(I) population and human health;

(II) biodiversity, with particular attention to species and habitats protected under the Habitats Directive and the Birds Directive;

(III) land, soil, water, air and climate;

(IV) material assets, cultural heritage and the landscape;

(V) the interaction between the factors mentioned in *clauses (I) to (IV)* , and

(ii) as regards the factors mentioned in *subparagraph (i)(I) to (V)* , such examination, analysis and evaluation of the expected direct and indirect significant effects on the environment derived from the vulnerability of the proposed development to risks of major accidents or disasters, or both major accidents and disasters, that are relevant to that development;

The Environmental Impact Statement for the project must contain the information specified in Paragraph 1 of Schedule 6 of the Planning and Development Regulations 2001, as amended and the additional information specified in Paragraph 2 of Schedule 6 by way of explanation or amplification of the information referred to in paragraph 1. The Planning Authority advises that the following information is considered in the preparation of the EIAR:

- The proposed windfarm is located within the Annageeragh and Creagh Catchments as such the EIAR should take into consideration the potential for impacts on water quality and substrate condition in the context of the presence of freshwater pearl mussels within the Annageeragh and Creagh Margaritifera Sensitive Areas. This refers predominantly to the Annageeragh catchment as it has been shown to have some suitable substrate and records of adult mussels in a recent study undertaken by EirEco in 2016. It is highly likely given the results of the 2016 survey the species can be considered effectively extinct in the Creagh catchment owing to severe historical and ongoing drainage along most of its main channel;
- All stages of the development should be considered in compiling information regarding the interactions of the development with surface water and groundwater. Impacts on downstream receptors shall be identified;

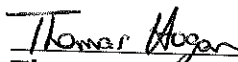
- There are approximately 10 windfarms surrounding the proposed windfarm. While it is noted that it is located within an area outlined as a Strategic Area for Wind Energy, and also within an area where Wind Energy is Acceptable in Principle, within the Clare Wind Energy Strategy, given the concentration of windfarms within this area it is imperative that as part of the constraints study to inform the restrictions that "avoidance of cumulative wind farm development" is given due consideration;
- With respect to the proximity to sensitive receptors the EIAR should take into account permitted dwellings that may not as yet be constructed;
- In relation to the peat stability assessment it is recommended that landslide susceptibility modelling is undertaken. The model should show areas at risk of landslide based on peat depth, slope, altitude, aspect and curvature. It should also take into consideration the concentration of windfarms permitted in the surrounding area (irrespective of whether or not they are as yet constructed);
- The landslide susceptibility modelling in the peat stability assessment should feed into an assessment of the risk of major accidents and disasters. The EIAR must include the expected effects from the vulnerability of the project to risks of major accidents and/or disasters that are relevant to the project.
- Acoustics and Vibration should be considered in relation to noise and vibration arising from the proposed development. Noise should be assessed in the context of site preparation, ongoing operation and any restoration required. Baseline readings at all noise-sensitive locations (e.g houses, schools etc) should be obtained.
- The assessment of landscape and visual impacts will be critical given the concentration of windfarms surrounding the proposal site. The impact of this concentration of windfarms on the environment in terms of visual impact and human perception will need to be addressed within the EIAR. The chapter on "Population and Human Health" should address the cumulative effect of such a high concentration of windfarms within this location;
- The cumulative visual impact of an additional windfarm will need to take into consideration the degree of separation and similarity of design. The balance between wind farm developments and

undeveloped open landscape retained will be a key consideration. In addition, all compliance data and information which is available to view on the Local Authority planning system should be reviewed in relation to other windfarms in the surrounding area to inform the cumulative impact assessment;

- A description of "reasonable alternatives" rather than "an outline of main alternatives" must be included in the EIAR.

The Department of Culture, Heritage and the Gaeltacht (Development Applications Unit (DAU) - 19/7/2019) has made a submission in relation to the proposed scoping request. This submission has been taken into consideration by the Planning Authority in the preparation of its comments. The DAU submission is attached as Appendix 1 to this document.

Mise le meas,



Thomas Hogan
Senior Staff Officer
Economic Development Directorate.

An Roinn Cultúir,
Oidhreacht agus Gaeltachta
Department of Culture,
Heritage and the Gaeltacht



Our Ref: **G Pre00162/2019**
(Please quote in all related correspondence)

19 July 2019

Planning Department,
Economic Development Directorate,
Clare County Council,
Áras an Chontae Chláir,
New Road,
Ennis,
Co. Clare
V95 DXP2

Via email: planoff@clarecoco.ie

Re: Scope Reference No. 1/2019 for the Proposed Cahermurphy Two Wind Farm in the townland of Cahermurphy and adjacent townlands in County Clare

A chara

On behalf of the Department of Culture, Heritage and the Gaeltacht, I refer to correspondence received in connection with the above.

Outlined below are heritage-related observations/recommendations of the Department under the stated headings.

Archaeology

All proposed development and strategies should be in compliance with the National Monuments Acts 1930 to 2004 and with the national policy on protection of archaeological heritage – 'Framework and Principles for the Protection of the Archaeological Heritage' published in 1999 by the Department of Arts, Heritage, Gaeltacht and the Islands.

General Guidance:

1. All areas of archaeological heritage should be addressed, including;
 - a) Immovable cultural heritage e.g. monuments and ancient field boundaries.
 - b) Underwater cultural heritage.
 - c) Movable cultural heritage e.g. loose carved stones, sculptures, architectural fragments etc.



2. All proposed development within proximity to archaeological monuments should be subject to appropriate consultation, at the earliest possible stage, with the Department of Arts, Heritage and the Gaeltacht.
3. All impacts which may impinge on the archaeological heritage should be assessed by a suitably qualified archaeologist.
4. Where appropriate, specialists in the field of archaeological heritage should be consulted throughout the process, from design through to implementation.
5. All surveys pertaining to archaeological heritage must be of a high standard in order to allow informed decisions to be taken.
6. All impacts must be assessed, to include ground disturbance, impacts on the setting of the monuments and visual impacts. These should include direct, indirect, temporary and cumulative impacts.
7. Mitigation of impacts, identified through consultation, should be taken into account within the development at the earliest possible stages. Various approaches should be considered, such as avoidance, design modification and relocation where appropriate.
8. Where there are no archaeological monuments present but the development is large in scale, e.g., over 0.5 hectares in area and over 1 kilometre in length, the Department recommends that an archaeological assessment should be undertaken, unless there are substantial grounds to show that it is not necessary. Refer to Framework and Principles for the Protection of the Archaeological Heritage 1999, in particular section 3.6.6 in regard to Environmental Impact Assessment (EIA).

Further information and relevant publications can be obtained on www.archaeology.ie.

Underwater Archaeology

The Environmental Impact Statement (EIS) should contain a detailed Cultural Heritage Section that addresses all Built Heritage within the footprint of the proposed windfarm, including works for access roads, compounds, etc. The Cultural Heritage section should address both terrestrial (Archaeological Impacts Assessment (AIA)) and underwater assessment (Underwater Archaeological Impact Assessment (UAIA)).

All assessments should be carried out by suitably qualified and suitably experienced archaeological personnel engaged by the client/contractor. The UAIA shall be carried out by a suitably qualified and suitably experienced archaeologist and shall include hand held metal detection survey. The Assessments shall be licensed by the Department of Culture, Heritage and the Gaeltacht. If any watercourse proves too deep to facilitate wading survey



(i.e. as recommended to max. depth of 0.75m), then an underwater archaeological dive assessment may be required.

Nature Conservation

The following observations are made in the context of this Department's role in relation to nature conservation, including as a prescribed authority under planning legislation. The observations are not exhaustive and are offered to assist the consultants in meeting the nature conservation obligations that arise in respect of this proposed development, and the screening for appropriate assessment and the appropriate assessment.

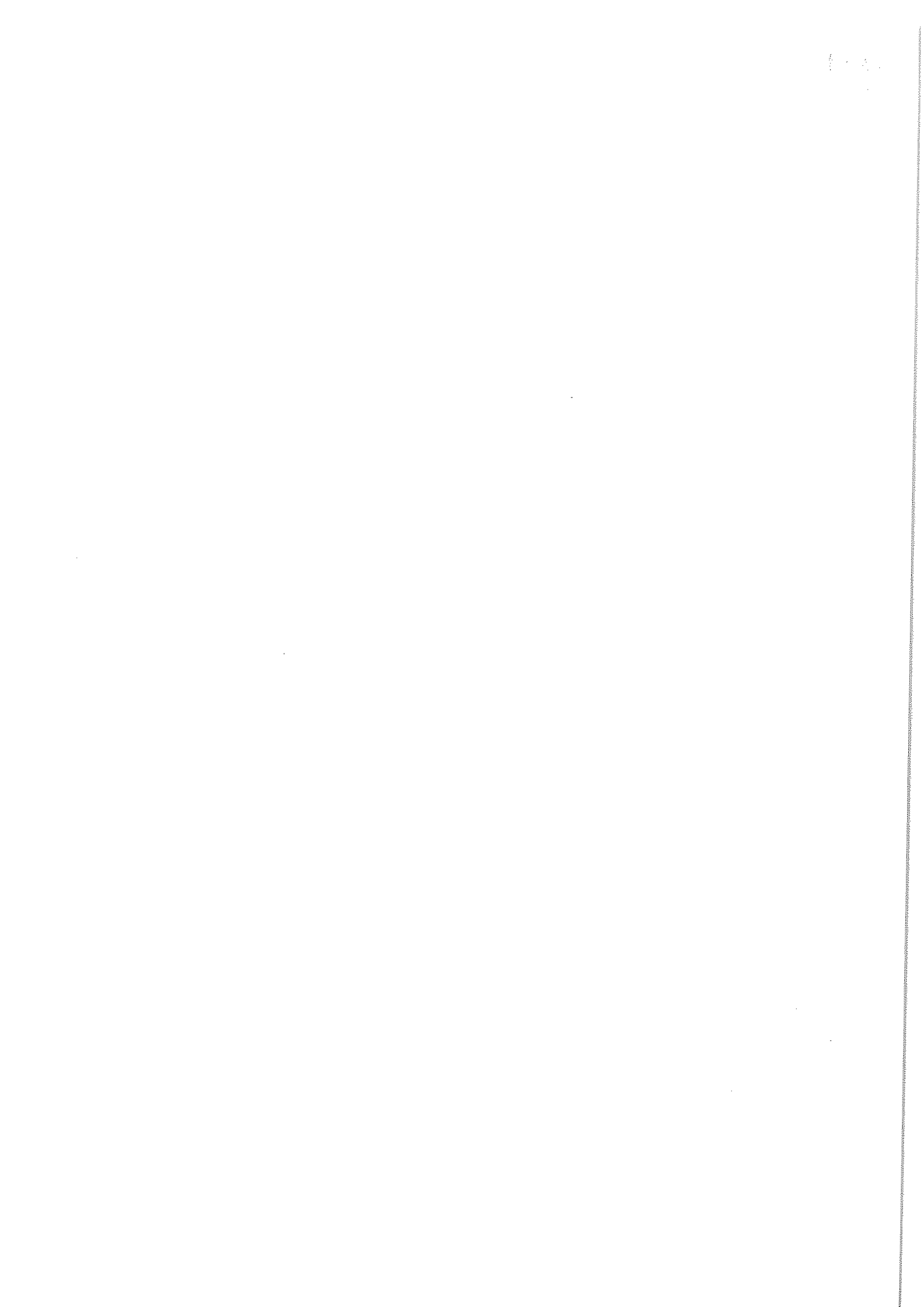
1. The proposed development site is in the Annageragh and Creegh River Freshwater Pearl Mussel catchments. Potential impacts on water quality as a result of this proposal will therefore need to be thoroughly assessed.
2. There are records of the Annex species Hen Harrier breeding in the site. Therefore a Hen Harrier survey will be required as part of survey work carried out for this proposal. Potential impacts on this Annex species including cumulative impacts with other windfarms in the area will need to be thoroughly assessed.
3. The site contains suitable habitat for and may have the following Annex species breeding within it: Curlew and Marsh fritillary butterfly. These species should be included *inter alia* in any survey work carried out as part of this application.
4. The site contains peatland habitats, some of which may be Annex habitat. Therefore a Habitat survey will be required as part of survey work carried out for this proposal.

The above observations/recommendations are based on the papers submitted to this Department on a pre-planning basis and are made without prejudice to any observations that the Minister may make in the context of any consultation arising on foot of any development application referred to the Minister, by the planning authority, in her role as statutory consultee under the Planning and Development Act, 2000, as amended.

You are requested to send further communications to this Department's Development Applications Unit (DAU) at manager.dau@chg.gov.ie (team monitored); if this is not possible, correspondence may alternatively be sent to:
The Manager, Development Applications Unit (DAU), Department of Culture, Heritage and the Gaeltacht, Newtown Road, Wexford, Y35 AP90

Is mise, le meas

Sinéad O' Brien
Development Applications Unit





Eoin O'Sullivan
Senior Environmental Scientist
McCarthy Keville O'Sullivan Ltd.
Tuam Rd.
Galway
H91 VW84

Carroll, KO
Received on

11 JUN 2019

170238

Eoin O'Sullivan

11 June 2019

Proposed wind energy development, Cahermurphy, Co. Clare.

Dear Eoin,

Your correspondence dated 5th June 2019 refers.

Shannon Airport Authority DAC would make the following general comments in respect of this type of development.

The siting of wind turbines at this location may have implications for the operations of the communication, navigation and surveillance systems used by Air Traffic Control for the separation and safety of aircraft. The geographical siting of these turbines may also have implications for the flight paths of aircraft.

Regard must be had to the Irish Aviation Authority (IAA) *Obstacles to Aircraft in Flight Order, 2002 (S.I. No.14 of 2002)*, as amended, which specifies the criteria used to determine whether or not any object anywhere in the State is deemed to be an obstacle affecting aircraft operations. Also, in order to assure the safety and efficiency of aircraft operations in the vicinity of airports, the International Civil Aviation Organisation (ICAO) has defined a volume of air space above which new objects are not permitted to interfere.

It would also be best practice that all wind energy developers should seek the views of the Irish Aviation Authority (IAA) at the pre-planning stage of consultation, with details of locations and proposed heights of turbines, to ensure that proposed developments do not



cause difficulties with air navigation safety. It is unclear to us whether any pre-planning consultation with the IAA – Safety Regulation Division has already happened in this instance.

In the event that any potential adverse effects relating to this wind turbine development were identified as part of the consultation process, Shannon Airport Authority DAC would fully support any submission from the IAA.

Finally, should planning permission be granted for this development in the future, we would ask that the planning authority stipulate the mandatory deployment of obstacle avoidance lighting on each individual wind turbine in the interests of flight safety.

Yours sincerely,

Paul Hennessy

Safety Compliance and Environment Manager

Shannon Airport Authority DAC.



An Roinn Cosanta
Department of Defence

Mr. Eoin O'Sullivan
McCarthy Keville O'Sullivan Ltd.,
Tuam Road
Galway
H91 VW84

Your Ref: 170238
Our Ref: 0512/2018/28

McCarthy KO
Received on

27 JUN 2019

170238

Eoin O'Sullivan

26th June 2019

Re: EIA Scoping Document for the Proposed Cahermurphy Two Wind Farm in the townland of Cahermurphy and adjacent townlands in County Clare

Dear Mr. O'Sullivan,

The Department has come back with the following observations:

On initial assessment as part of the scoping document received for the location please add the following -

- a. In all locations where wind farms are permitted it should be a condition that they meet the following lighting requirements
 1. Single turbines or turbines delineating corners of a windfarm should be illuminated by high intensity obstacle strobe lights (Red).
 2. Obstruction lighting elsewhere in a windfarm will be of a pattern that will allow the hazard be identified and avoided by aircraft in flight.
 3. Obstruction lights used should be incandescent or of a type visible to Night Vision Equipment. Obstruction lighting fitted to obstacles must emit light at the near Infra-Red (IR) range of the electromagnetic spectrum specifically at or near 850nanometres (nm) of wavelength. Light intensity to be of similar value to that emitted in the visible spectrum of light Obstruction lights used should be incandescent or of a type visible to Night Vision Equipment.

Please keep this office advised of any changes to the development and future planning applications.

Yours sincerely,

Geraldine Cunningham
Property Management Planning
Tel: 045 492036
Email: geraldine.cunningham@defence.ie

Eoin O'Sullivan

From: Manager DAU <Manager.DAU@chg.gov.ie>
Sent: 26 June 2019 12:44
To: Eoin O'Sullivan
Subject: 170238 - Cahermurphy Two Wind Farm -

Our Ref: G Pre00176/2019 (Please quote in all related correspondence)

A Chara

On behalf of the Department of Culture, Heritage and the Gaeltacht, I acknowledge receipt of your recent consultation.

In the event of observations, you will receive a co-ordinated heritage-related response by email from Development Applications Unit (DAU) on behalf of the Department.

The normal target turnaround for pre-planning and other general consultations is six weeks from date of receipt. In relation to general consultations from public bodies under the European Communities (Environmental Assessment of Certain Plans and Programmes) Regulations 2004 to 2011, the Department endeavours to meet deadline dates, where requested.

If you have not heard from DAU and wish to receive an update, please telephone the direct line number below or email manager.dau@chg.gov.ie.

Margaret Cloney

Executive Officer

— —

An Roinn Cultúir, Oidhreacht agus Gaeltachta

Department of Culture, Heritage and the Gaeltacht

Aonad na nIarratas ar Fhorbairt

Development Applications Unit

Bóthar an Bhaile Nua, Loch Garman, Contae Loch Garman Y35 AP90

Newtown Road, Wexford, Co Wexford, Y35 AP90

— —

T: +353 (0)53 911 7434
manager.dau@chg.gov.ie
www.chg.gov.ie

Tá an t-eolas sa ríomhphost seo faoi rún, chomh maith le gach comhad atá ceangailte leis, agus i gcomhair úsáid an duine nó an chórais a bhfuil sé dírithe air amháin. Má fhaigheann tú an ríomhphost seo trí bhotún, cuir scéal chugainn ag webmaster@chg.gov.ie. Tá an ríomhphost seo arna sheiceáil ag scanóir víreas agus dealramh air go bhfuil sé glan.

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Your Ref: 170238

Our Ref: **G Pre00162/2019** (*Please quote in all related correspondence*)

19 July 2019

Eoin O'Sullivan,
Senior Environmental Scientist,
McCarthy Keville O'Sullivan Ltd,
Tuam Road,
Galway
Via email: info@mkoireland.ie

Re: EIA Scoping Document for the Proposed Cahermurphy Two Wind Farm in the townland of Cahermurphy and adjacent townlands in County Clare

A chara

On behalf of the Department of Culture, Heritage and the Gaeltacht, I refer to correspondence received in connection with the above.

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Is mise, le meas

Sinéad O' Brien
Development Applications Unit

Eoin O'Sullivan

From: John Bagnall <john.bagnall@eir.ie>
Sent: 28 February 2019 10:28
To: Eoin O'Sullivan
Cc: Mobile Networks TXN
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

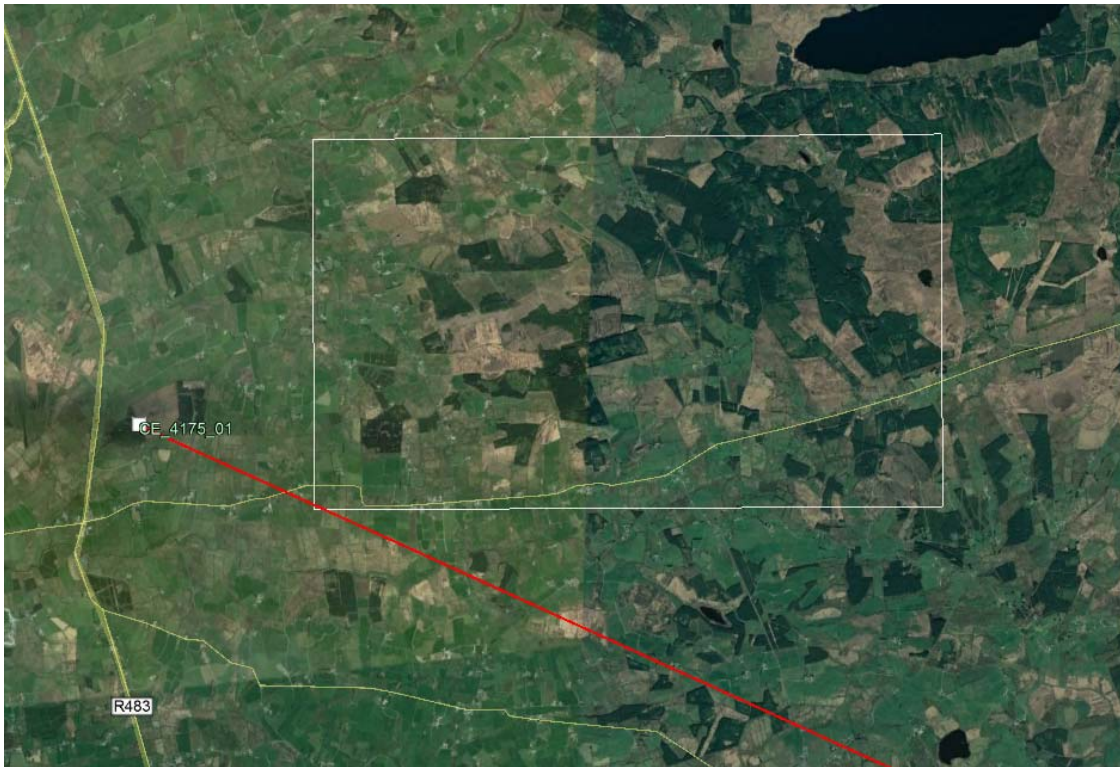
Hi Eoin,

We have one transmission links within the proposed Wind farm, that is just inside the area of risk, the end points of the transmission links are below, we look for a buffer of 100meters radius away from transmission paths once you have coordinates for the turbines are redesigned send on for further analysis.

Link 1 – End point 1 - 52°45'21.12"N 009°25'17.75"W, End point 2 – 52°43'14.00"N 009°17'20.83"W

Please keep sending new development analysis request to MobileNetworksTXN@eir.ie for Eir Mobile (formerly Meteor) network analysis.

Kind regards,
John



On Thu, 28 Feb 2019 at 09:34, Eoin O'Sullivan <eosullivan@mccarthykos.ie> wrote:

Dear John,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if Eir has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv

Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

MKO, Tuam Road, Galway. H91 VW84

T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

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Eoin O'Sullivan

From: Stephen Hall <shall@irishwireless.net>
Sent: 01 April 2019 15:33
To: Eoin O'Sullivan; accounts@bbnet.ie
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Eoin,
BBnet do not currently have any links in the area shown.
Thanks you for your consideration.

Regards
Stephen Hall



NATIONAL REACH | GLOBAL CONNECTIVITY

Stephen Hall | E: shall@bbnet.ie | M: +353-87-6633660 | www.bbnet.ie

Shannon Office | Unit 1, Eastpark, Smithstown Ind Estate, Shannon, Co. Clare V14 D584 | T: +353 61 512000
Dublin Office | Guinness Enterprise Centre, Taylors Lane, Dublin 8 | T: +353 1 687 4545
Cork Office | Cork Internet Exchange, Hollyhill Industrial Estate, Cork | T: +353 21 467 0890

BBnet is a registered trading name of EOBO Ltd, registered in Ireland, CRO No. 413435, VAT IE6433435F, addressed at Unit 1, East Park, Shannon, Co. Clare, IRELAND

From: Eoin O'Sullivan [mailto:eosullivan@mkoireland.ie]
Sent: Friday 29 March 2019 15:46
To: accounts@bbnet.ie
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Sir or Madam,

Further to my email below of the 28th February 2019, can you please let me know if EOBO Ltd has links in the area outlined on the attached site location map?

Thank you for your time in this matter.

Kind Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO
Tuam Road, Galway
Ireland, H91 VW84
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www.mkoireland.ie



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From: Eoin O'Sullivan
Sent: 28 February 2019 16:00
To: 'accounts@bbnet.ie' <accounts@bbnet.ie>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

To Whom It May Concern:

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if EOBO Ltd has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

MKO, Tuam Road, Galway. H91 VW84
T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

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Eoin O'Sullivan

From: Myles Redmond <myles.redmond2@esb.ie>
Sent: 29 May 2019 08:05
To: Eoin O'Sullivan
Cc: Wilson Dalikeni; Paul McDonagh
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm
Attachments: 2019 Cahernurphy WF Analysis.docx

Hi Eoin,

The impact analysis for the proposed WF is attached. There is no impact on any part of our current microwave network nor our polling radio network.

The only possible impact the turbines may have is on the future polling radio link to the substation for the proposed WF itself. We had recently carried out some Analysis at the gate of the Cahermurphy Windfarm and the high site which this location would be connected to is Approx. South South-West of Cahermurphy which may be worth bearing in mind if the location of the station hasn't been determined yet.

Regards,

Myles

From: Eoin O'Sullivan [<mailto:eosullivan@mkoireland.ie>]
Sent: 16 May 2019 10:11
To: McDonagh. Paul (ESB Networks) <paul.mcdonagh@esb.ie>
Cc: Dalikeni. Wilson (ESB Networks) <Wilson.Dalikeni@esb.ie>
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Paul,

Further to my email below, has the analysis been completed for this site yet?

Thank you

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Eoin O'Sullivan
Sent: 03 May 2019 10:16
To: Paul McDonagh <paul.mcdonagh@esb.ie>
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Paul,

Do you have an update on the analysis for the proposed wind farm at Cahermurphy?

Thank you for your time.

Kind Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Eoin O'Sullivan
Sent: 25 April 2019 10:12
To: Paul McDonagh <paul.mcdonagh@esb.ie>
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Paul,

With reference to our correspondence below, how long do you reckon the analysis will take?

Thank you

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO
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From: Eoin O'Sullivan
Sent: 18 April 2019 12:39
To: Paul McDonagh <paul.mcdonagh@esb.ie>
Cc: Wilson Dalikeni <Wilson.Dalikeni@esb.ie>
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Paul,

Thank you for your email.

This is for a new wind farm proposal directly to the west of the development referenced in your email. We are currently looking at 10 no. turbines with a tip height of 169m. Please find set out below coordinates for indicative turbine locations:

- Turbine #1: ITM – 507384.1, 669376.7
- Turbine #2: ITM - 507942.1, 669771.1
- Turbine #3: ITM – 508531, 669910.3
- Turbine #4: ITM – 507745, 669039.1
- Turbine #5: ITM - 508381.2, 669209.3
- Turbine #6: ITM - 508921.4, 669599.8
- Turbine #7: ITM - 508973.2, 669005.5
- Turbine #8: ITM - 508219.5, 668682.7
- Turbine #9: ITM - 508363.9, 668233.2
- Turbine #10: ITM - 509011.8, 668538.2

Please note that we are at the early stages of the project and therefore the turbine details are likely to change.

I trust the above is in order, however if you have any queries please do not hesitate to contact me.

Kind Regards

Eoin



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www.mkoireland.ie



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From: Paul McDonagh <paul.mcdonagh@esb.ie>
Sent: 18 April 2019 12:15
To: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Cc: Wilson Dalikeni <Wilson.Dalikeni@esb.ie>
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Eoin

An analysis was conducted by ourselves back in 2014 for a development of the same name, I have attached the map with the indicated turbines at the time. Could you confirm is this the same development, could you also confirm the turbine quantities and parameters and another analysis could be performed.

Many Thanks

Paul

From: Eoin O'Sullivan [<mailto:eosullivan@mkoireland.ie>]
Sent: 18 April 2019 09:02
To: McDonagh. Paul (ESB Networks) <paul.mcdonagh@esb.ie>
Cc: Dalikeni. Wilson (ESB Networks) <Wilson.Dalikeni@esb.ie>
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

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Dear Paul,

Further to my email below, can you please confirm whether ESB Telecoms has any links in the area outlined red on the attached map?

Thank you for your time.

Kind Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Eoin O'Sullivan
Sent: 29 March 2019 15:38
To: 'Paul McDonagh' <paul.mcdonagh@esb.ie>
Cc: 'Wilson Dalikeni' <Wilson.Dalikeni@esb.ie>
Subject: RE: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Paul,

Further to my email below of the 28th February 2019, can you please let me know if ESB Telecoms has links in the area outlined on the attached site location map?

Thank you for your time in this matter.

Kind Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Eoin O'Sullivan
Sent: 28 February 2019 09:35
To: 'Paul McDonagh' <paul.mcdonagh@esb.ie>
Cc: Wilson Dalikeni <Wilson.Dalikeni@esb.ie>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Paul,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if ESB Telecoms has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

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An t-impeallacht? - Smaoinigh air sula bpriontáileann tú an r-phost seo.
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* * * * *

Tá an t-eolas sa ríomhphost seo agus in aon chomhad a ghabhann leis rúnda agus ceaptha le haghaidh úsáide an té nó an aonáin ar seoladh chuige iad agus na húsáide sin amháin.

Is tuairimí nó dearchtaí an údair amháin aon tuairimí nó dearchtaí ann, agus ní gá gurb ionann iad agus tuairimí nó dearchtaí ESB.

Má bhfuair tú an ríomhphost seo trí earráid, ar mhiste leat é sin a chur in iúl don seoltóir.

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* * * * *

An timpeallacht? - Smaoinigh air sula bpriontáileann tú an r-phost seo.
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* * * * *

Tá an t-eolas sa ríomhphost seo agus in aon chomhad a ghabhann leis rúnda agus ceaptha le haghaidh úsáide an té nó an aonáin ar seoladh chuige iad agus na húsáide sin amháin.

Is tuairimí nó dearcthaí an údair amháin aon tuairimí nó dearcthaí ann, agus ní gá gurb ionann iad agus tuairimí nó dearcthaí ESB.

Má bhfuair tú an ríomhphost seo trí earráid, ar mhiste leat é sin a chur in iúl don seoltóir.

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* * * * *

1. CAHERMURPHY WINDFARM, CO. CLARE

There are 10 turbines proposed around Cahermurphy, Co. Clare.

The turbines max height is proposed at 169m and rotor diameter assumed to be 70m

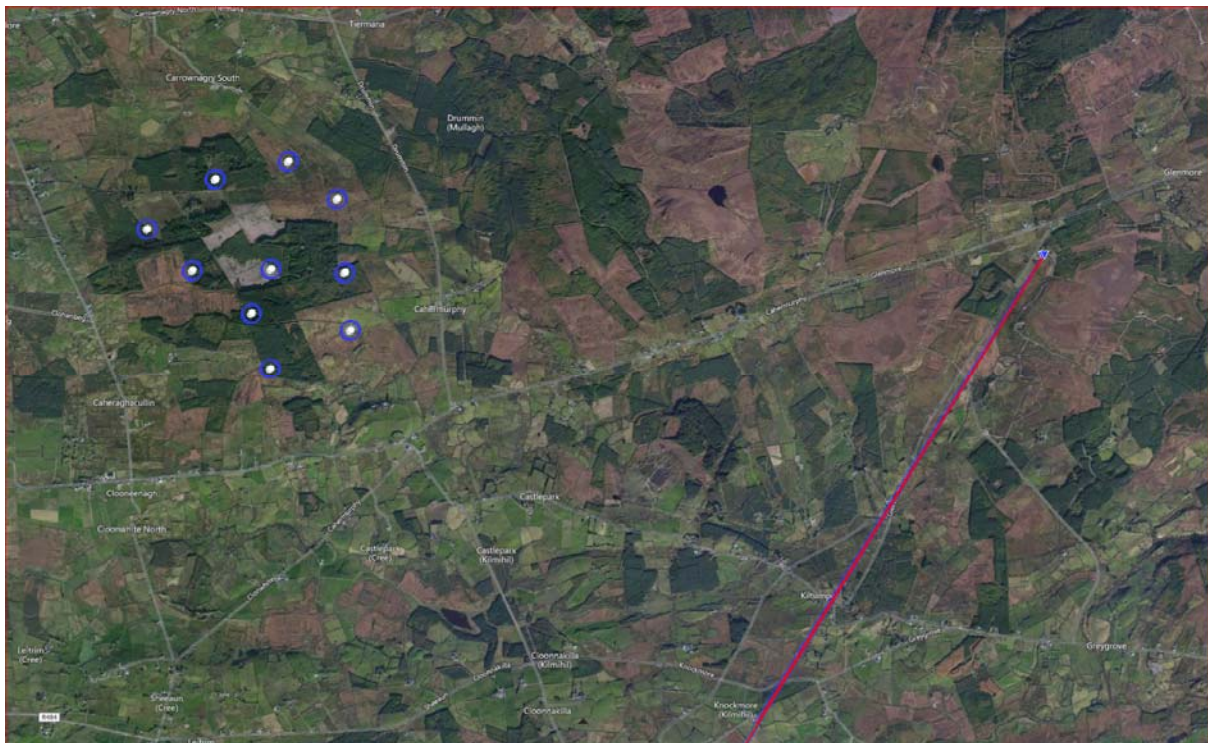
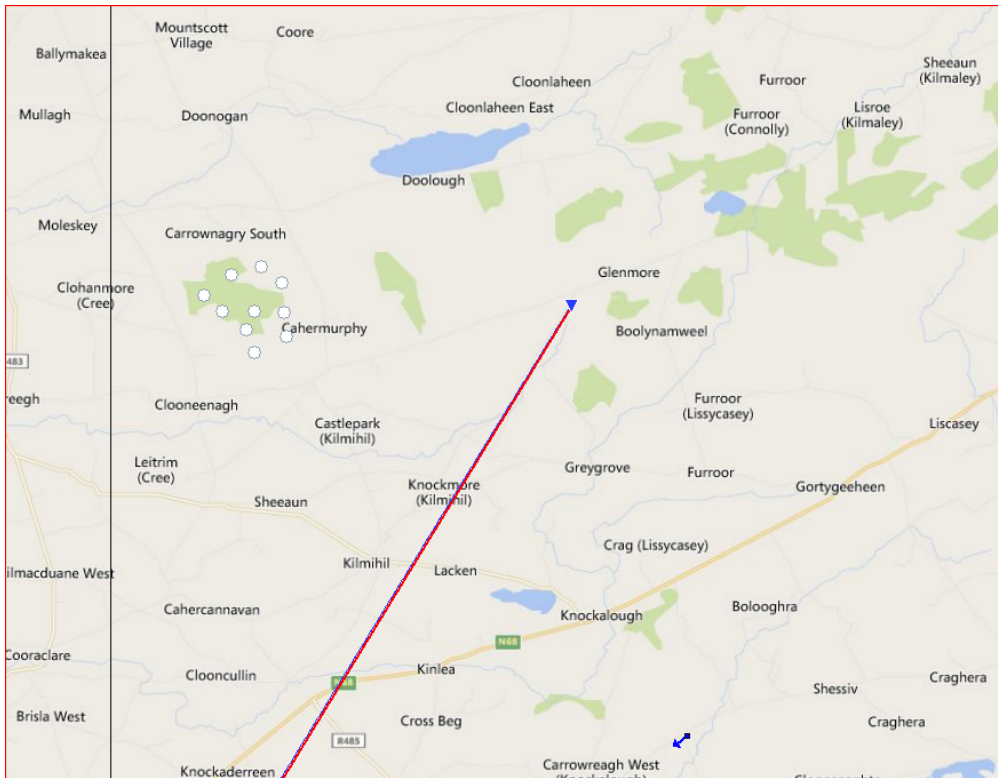
This Analysis shows that there is no effect on current or planned microwave links and also there doesn't seem to be any effect on polling radio sites.

The nearest Microwave link is from a new station, Greygrove 38kV to Moneypoint which is 4.2km away from the nearest turbine on the Windfarm. The polling radio sites are unaffected.

The only issue that may rise in the future is the polling radio link from the proposed Cahermurphy Sub station to Knockanore however the co-ordinates of the new station haven't been confirmed.

Turbine	Lat	Long
T1	52.76748053	-9.37242333
T2	52.77111966	-9.36426799
T3	52.77247043	-9.35558221
T4	52.76450884	-9.366982
T5	52.76461707	-9.35755804
T6	52.76974644	-9.34971189
T7	52.7644152	-9.34877943
T8	52.76138728	-9.35985352
T9	52.75737289	-9.35758908
T10	52.76022286	-9.34807797

1.1 Map



Eoin O'Sullivan

From: planning applications <planning.applications@faiteireland.ie>
Sent: 01 July 2019 17:09
To: Eoin O'Sullivan
Subject: RE: 170238 - Cahermurphy Two Wind Farm - Scoping Document
Attachments: EIS & Tourism Guidelines.pdf

Hello Eoin,

Thank you for your e-mail in relation to the EIA Scoping Document for the Proposed Cahermurphy Two Wind Farm in the townland of Cahermurphy and adjacent townlands in County Clare. Please see attached a copy of Fáilte Ireland's Guidelines for the treatment of tourism in an EIS, which we recommend should be taken into account in preparing the EIAR.

For future planning queries, notifications and documentation please send direct to planning.applications@faiteireland.ie or by post to the Manager of Environment & Planning, Fáilte Ireland, 88/95 Amiens Street, Dublin 1. D01WR86. This will ensure the information/notifications will get to the Environmental & Planning Unit Team and reviewed in a timely manner.

Regards & thanks,

Yvonne Jackson

Product Development-Environmental & Planning Support | Fáilte Ireland
Áras Fáilte, 88/95 Amiens Street, Dublin 1. D01WR86
T +353 (0)1 884 7224 | www.failteireland.ie



From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: 05 June 2019 11:25 AM
To: Yvonne Jackson <Yvonne.Jackson@faiteireland.ie>
Subject: Re: 170238 - Cahermurphy Two Wind Farm - Scoping Document

Dear Ms. Jackson,

Mid Clare Renewable Energy Designated Activity Company & Coillte Cuideachta Ghníomhaíochta Ainmnithe is investigating the potential for a proposed wind energy development at Cahermurphy and adjacent townlands, located in County Clare. McCarthy Keville O'Sullivan Ltd. (MKO) has been appointed as Environmental Consultants on this project and will be preparing an Environmental Impact Assessment Report Statement (EIAR) for the proposed Cahermurphy Two Wind Farm.

We have attached a cover letter and Scoping Document which provides details of the proposed project. As part of the EIA process for the proposed development, we would welcome any comments in relation to the proposed project.

Please note we have had to reduce the size of this file for email - if you have any queries, please do not hesitate to contact me.

Kind regards,



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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Guidelines on the treatment of tourism in an Environmental Impact Statement

1. Introduction

Tourism is a significant component of the Irish Economy – estimated to employ approximately 205,000 people – and contributing €6.6 billion in spending to the economy in 2014. The environment is one of the main resources upon which this activity depends – so it is important that the EIS evaluates whether and how the interacting impacts of a project are likely to affect tourism resources.

The purpose of this short note is to provide guidance on how these impacts can be assessed through the existing EIA process. Undertaking an EIA is governed by the EIA Advice Notes published by the EPA. These Advice Notes contain detailed guidance on how to describe and evaluate the effects arising from a range of projects, including tourism projects.

These guidelines were written with the assistance of Conor Skehan, Head of Department of Environment and Planning, Dublin Institute of Technology.

2. Tourism and the Environment

There are two interactions between tourism and the environment.

1. Impacts caused by Tourism Projects
2. Impacts affecting Tourism (e.g. the quality of a destination or a tourism activity)

Impacts caused by Tourism Projects

Tourism projects can give rise to effects on the environment. These are specifically dealt with under a number of Project Types in the Advice Notes, specifically:

12 TOURISM AND LEISURE

- a. Ski-runs, ski-lifts and cable-cars where the length would exceed 500 metres and associated developments. Project Type 20
- b. Sea water marinas where the number of berths would exceed 300 and fresh water marinas where the number of berths would exceed 100. Project Type 10

c. Holiday villages which would consist of more than 100 holiday homes outside built-up areas; hotel complexes outside built-up areas which would have an area of 20 hectares or more or an accommodation capacity exceeding 300 bedrooms. Project Type 28

d. Permanent camp sites and caravan sites where the number of pitches would be greater than 100. Project Type 28

e. Theme parks occupying an area greater than 5 hectares. Project Type 29

Figure 1 The Advice Notes contain detailed descriptions on how to describe and evaluate the effects arising from a range of tourism projects.

Impacts affecting Tourism

Environmental effects of other projects on tourism are not specifically addressed in the Advice Notes. Taking account of the significance of tourism to the Irish economy a specialist topic of 'Tourism' has been prepared to facilitate a systematic evaluation of effects on this sector within the format laid down for other parts of the Environmental Impact Statement.

It is not intended that the assessment of effects on tourism should become a separate section of the Impact Statement, instead it is intended to become a specialist sub-section of the topic 'Human Beings' which is currently described in Section 2 of the Advice Notes

3. Tourism in the Existing Environment

Introduction

Visitor attitude surveys reveal that the following factors – in order of priority – are the reasons that tourists visit and enjoy Ireland:

- Beautiful scenery
- Friendly & hospitable people
- Safe & Secure
- Easy, relaxed pace of life
- Unspoilt environment
- Nature, wildlife, flora
- Interesting history & culture
- Plenty of things to see and do
- Good range of natural attractions

It is noteworthy that over half of the factors listed are environmental and that all others are related to the way of life of the people. The following describes how these factors are considered within an EIS, set out under EIA topic headings, and how they interact with tourism.

Beautiful scenery

This is covered in the '*Landscape*' Section. Particular attention needs to be paid to effects on views from existing purpose-built tourism facilities, especially hotels, as well as views from touring routes and walking trails. It is important to note that there appears to be evidence that the visitor's expectations of 'beautiful' scenery does not exclude an admiration of new modern developments – such as windfarms – which appear to be seen as indicative of a modern, informed and responsible attitude to the environment.

Friendly & hospitable people

This is not an environmental factor though it is indirectly covered under the '*Human Beings*' section of the EIS. The principal factor is the ratio of visitors to residents. This is of less significance in areas with long-established patterns of tourism.

Safe & Secure

This is not an environmental issue – though some of the factors that are sometimes covered under the heading of '*Human Beings*' – such as social inclusion or poverty – can point to likely effects and interactions.

Easy, relaxed pace of life

This is not an environmental issue though it is partially covered under '*Human Beings*' – see comments above.

Unspoilt environment

This is covered under the sections dealing with '*Landscape*', '*Flora*' and '*Fauna*' and to a lesser extent under emissions to '*Water*' and '*Air*'. In some instances traffic congestion, especially in rural areas, can be an issue, this is usually covered within '*Material Assets*'.

Nature, wildlife, flora

This is principally covered under the headings of '*Flora*' and '*Fauna*' and to a lesser extent by '*Landscape*', '*Water*' and '*Air*'. The principal issues being to avoid any effects that might reduce the health or extent of the habitats. This can occur either directly, by impinging on the site, or indirectly, through emission, that can affect the natural resources, like clean water, which the habitat depends on. It also considers effect on physical access to and visibility of these sites. Occasionally there are concerns about the disturbance or wear and tear of visitor numbers to such sites.

Interesting history & culture

This is principally covered under '*Cultural Heritage*' and, to a lesser extent, under '*Human Beings*'. The principal issues being to avoid damage to sites and structures of cultural, historical, archaeological or architectural significance – and to their contexts or settings. It also considers effect on physical access to and visibility of these sites. Occasionally there are concerns about the wear and tear of visitor numbers to such sites.

Plenty of things to see and do.

This is not an environmental issue though it is partially covered by the 'Human Beings' section, where the tourism resources of an area are described and assessed.

Good range of natural attractions

This is covered by the 'Landscape', 'Flora', 'Fauna', and 'Cultural Heritage' sections of the EIS.

4. Project factors affecting Tourism

Introduction

Tourism can be affected both by the structures or emissions of new developments as well as by interactions between new activities and tourism activities – for example the effects of high volumes of heavy goods vehicles passing through hitherto quiet, scenic, rural areas. Tourism can be affected by a number of the characteristics of the new project such as:

- New Developments
 - Social Considerations
 - Land-uses and Activities
-
- *New Developments* - will the development stimulate or suppress demand for additional tourism development in the area? If so, what type, how much and where? Marinas, golf courses, other major sporting facilities as well as theme parks and larger conference facilities can all stimulate the emergence of new accommodation, catering and leisure facilities often within an extensive area around a new primary visitor facility. Extensive urbanisation and large scale infrastructure as well as certain processing and extractive industries all have the potential to suppress demand for additional tourism – but usually only in the immediate locality of the new development. It should be noted however, that some types of new or improved large scale infrastructure – such as roads – can improve the visitor experience – by increasing safety and comfort or can convey a sense of environmental responsibility – such as wind turbines.
 - *Social Consideration* - will the development change patterns and types of activity and land use? Will it affect the demographics, economy or social dynamics of the locality?
 - *Land-use* - will there be severance, loss of rights of way or amenities, conflicts, or other changes likely to ultimately alter the character and use of the tourism resources in the surrounding area?

Existing Tourism

In the area likely to be affected by the proposed development, the following attributes of tourism, or the resources that sustain tourism, should be described under the following headings.

Note that the detailed description and analysis will usually be covered in the section dealing with the relevant environmental topic – such as '*Landscape*'. Only the relevant finding as to the likely significance to, or effect on, tourism needs to be summarised in this section.

Context

Indicate the location of sensitive neighbouring tourism resources that are likely to be directly affected, and other premises which although located elsewhere, may be the subject of secondary impacts such as alteration of traffic flows or increased urban development. The following should be noted in particular:

- Hotels, conference centres, holiday accommodation – including holiday villages, holiday homes, and caravan parks.
- Visitor centres, Interpretive centres and theme parks
- Golf courses, adventure sport centres and other visitor sporting facilities
- Marinas and boating facilities
- Angling facilities
- Equestrian facilities
- Tourism-related specialist retailers and visitor facilities
- Historic and Cultural Sites
- Pedestrian, cycling, equestrian, vehicular and coach touring routes

Indicate the numbers of premises and visitors likely to be directly affected directly and indirectly.

Identify and quantify, where possible, their potential receptors of impacts, noting in particular transient populations, such as drivers, walkers, seasonal and other non-resident groups.

Describe any significant trends evident in the overall growth or decline of these numbers, or of any changes in the proportion of one type of activity relative to any other.

Indicate any commercial tourism activity which likely to be directly affected, with resultant environmental impacts.

Character

Indicate the occupations, activities or interests of principal types of tourism in the area. – Where relevant, describe the specific environmental resources or attributes in the existing environment which each group uses or values; where relevant, indicate the time, duration or seasonality of any of those activities. For example describe the number of guides, boats and anglers who use a salmon fishery and the duration of the salmon season as well as the quantity and type of local accommodation that is believed to be used by the anglers.

Significance

Indicate the significance of the principal tourism assets or activities likely to be affected. Refer to any existing formal or published designation or recognition of such significance. Where possible provide an estimate of the contribution of such

tourism activities to the local economy. For instance refer to the number of annual visitors to a tourism attraction or to the grading of a hotel.

Sensitivity

Describe any significant concerns, fears or opposition to the development known to exist among tourism interests. Identify, where possible, the particular aspect of the development which is of concern, together with the part of the existing tourism resource which may be threatened. For instance describe the extent of a potential visual intrusion onto a site of historic significance which is the main local tourist attraction.

5. Impacts on Tourism

"Do Nothing" Impact;

Describe how trends evident in the existing environment will continue and how these trends will affect tourism.

Predicted impact;

- Describe the location, type, significance, magnitude/extent of the tourism activities or assets that are likely to be affected.

- Describe how the new development will affect the balance between long-established and new dwellers in an area and its affect on the cultural or linguistic distinctiveness of an area. For example describe the effect of a new multi-national population required for an international call-centre located in a Gaeltacht area.

- Describe how changes in patterns of employment, land use and economic activity arising from the proposed development will affect tourism, for example, illustrating how a new industrial development will diversify local employment opportunities thereby reducing the area's unsustainable over-reliance on seasonal tourism.

- Describe the consequences of change, referring to indirect, secondary and cumulative impacts on tourism; Examples can include describing how the new development may lead to a reduced assimilative capacity for traffic or water during the peak of the tourism season or how new urbanism combined with existing patterns of tourism may lead to unsustainable levels of pedestrian traffic through a sensitive habitat.

- Describe the potential for interaction between changes induced in tourism and other uses that may affect the environment – for instance increasing new tourism-related housing affecting water resources or structures

- Describe the worst case for tourism if all mitigation measures fail.

6. Mitigating adverse impact on Tourism

Describe the mitigation measures proposed to:

- *avoid* sensitive tourism resources – such as views, access, and amenity areas including habitats as well as historical or cultural sites and structures.
- *reduce* the exposure of sensitive resources to excessive environmental burdens arising from the development's emissions or volumes of traffic [pedestrian and vehicular], and/or losses of amenity arising from visually conspicuous elements of the development – for example by prioritizing visual screening of views from a hotel towards a quarry.
- *reduce* the adverse effects to tourism land uses and patterns of activities – especially through interactions arising from significant changes in the intensity of use or contrasts of character or appearance – for example by separating traffic routes for industrial and tourism traffic.
- *remedy* any unavoidable significant residual adverse effects on tourism resources or activities, for example by providing alternative access to tourism amenities – such as waterways or monuments.

Eoin O'Sullivan

From: William Morgan <william.morgan@imaginegroup.ie>
Sent: 06 March 2019 12:54
To: Eoin O'Sullivan
Cc: Ronnie O'Neill
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm
Attachments: Imagine Transmission - Cahermurphy Wind Farm Map.JPG

Hi Eoin,

I have reviewed the area that you have highlighted and I can confirm that it doesn't appear that any of our existing/proposed links will be in proposed area for the wind farm.

Please see the photograph attached which shows the area on our Google Maps view of the broadband network.

Kind Regards,
Will.

From: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Sent: Thursday, February 28, 2019 9:35 AM
To: Ronnie O'Neill <Ronnie.ONeill@imaginegroup.ie>
Cc: Miriam Casey <Miriam.Casey@imaginegroup.ie>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Ronnie,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if Imagine Group has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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Date 13th June 2019

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Received on

17 JUN 2019

170238

Eoin O'Sullivan

Development: Mid Clare Renewable Energy Designated Activity Company (DAC) & Coillte Cuideachta Ghniornhaíochta Ainmnithe (Coillte) is investigating the potential for a proposed wind energy development at Cahermurphy and adjacent townlands, located in County Clare. McCarthy Keville O'Sullivan Ltd. (MKO) has been appointed as Environmental Consultants on this project and will be preparing an Environmental Impact Assessment Report Statement (EIAR) for the proposed Cahermurphy Two Wind Farm. The proposed development site measures approximately 492 hectares and is located approximately 25 kilometres southwest of Ennis, Co. Clare and approximately 20 kilometres northeast of Kilkee Co. Clare. It is envisaged that the proposed wind farm will comprise up to approximately 10 no. wind turbines, access roads, electricity substation and wind farm control buildings, battery storage facility, borrow pits, electrical underground cabling for grid connection, temporary construction compound and a permanent anemometry mast. In this regard, it is intended to submit the planning permission application to Clare County Council at townland of Cahermurphy and adjacent townlands in County Clare. Ref: 170238

Dear Sir / Madam

I refer to the request for planning permission for the above development, details of which were received by the Irish Aviation Authority from the Council.

It is the observations of the Irish Aviation Authority Aerodromes department that in the event of planning consent being granted, the applicant should be conditioned to contact the Irish Aviation Authority to:

- (1) Agree an aeronautical obstacle warning light scheme for the wind farm development.
- (2) Provide as-constructed coordinates in WGS84 format together with ground and tip height elevations at each wind turbine location

Turbine No.	WGS-84 Co-ordinates	Ground elevation (Malin Head OD)	Blade tip elevation of turbine (Malin Head OD)	Height of turbine (height from ground level to blade tip)	Confirm if turbine has obstacle lighting.
T1	53.346125, -6.258288	75m	225m	150m	No

Bord Stiúirthóirí/Board of Directors

Michael McGrail (Cathaoirleach/Chairman),
Peter Kearney (Príomhfhéidhmeannach/Chief Executive)
Cian Blackwell, Marie Bradley, Ernie Donnelly,
Gerry Lumsden, Joan McGrath, Michael Norton,
Eimer O'Rourke

Oifig Chláraithe:

Foirgneamh na hAmanna, 11-12 Sráid D'Olier
Baile Átha Cliath 2, D02 T449, Éire
Uimhir Chláraithe: 211082. Áit Chláraithe: Éire
Cuideachta Dlíteanais Theoranta

Registered Office:

The Times Building, 11-12 D'Olier Street
Dublin 2, D02 T449, Ireland
Registered No. 211082. Registered in Ireland
A Limited Liability Company



QUALITY
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NSAI Certified



(2) Notify the Authority of intention to commence crane operations with a minimum of 30 days prior notification of their erection.”

Yours sincerely

Deirdre Forrest
Corporate Affairs



Eoin O'Sullivan

From: Jarek Frankiewicz <jarek.frankiewicz@ripplecom.net>
Sent: 28 February 2019 11:32
To: Eoin O'Sullivan; Licensing
Cc: Business@Ripplecom; Arlene Kenny
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Eoin,

I would like to let you know that I did a quick check of the provided development and it seems to have no impact on our existing radio infrastructure.

Best Regards

Jarek Frankiewicz | Procurement

M: 087 9654718

E: jarek.frankiewicz@ripplecom.net | W: ripplecom.net

Houston Hall, Raheen Business Park, Limerick, V94 PKF1



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From: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Sent: Thursday, February 28, 2019 9:35
To: Licensing
Cc: Business@Ripplecom
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Sir/Madam,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if Ripplecom has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

MKO, Tuam Road, Galway. H91 VW84

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Eoin O'Sullivan

From: Matthew Craig <matthew.craig@2rn.ie>
Sent: 28 February 2019 11:21
To: Eoin O'Sullivan
Cc: Johnny Evans
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Eoin,

Our telecoms links will be unaffected by a development in the area that you have highlighted in your attachment. There is a risk of disruption to television viewers to the west of this zone receiving their signal from Maghera and the north east for viewers receiving from Cnoc an Oir (Knockanore).

I would recommend that we have a protocol agreement in place.

Could you please send us the details of any turbines when they become available and we will perform a detailed analysis to determine the possible impact that the development might have?

Regards

Matthew Craig

Project Engineer
Projects and Coverage Planning
2RN
Block B, Cookstown Court, Old Belgard Road, Tallaght, Dublin 24, Ireland
D24 WK28
Phone: + 353 (0) 1 2082261
Mobile: + 353 (0) 87 7509955

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From: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Sent: 28 February 2019 09:54
To: Johnny Evans <Johnny.Evans@2rn.ie>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Johnny,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if RTE has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv

Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

MKO, Tuam Road, Galway. H91 VW84

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Eoin O'Sullivan

From: Thomas Barry <Tom.Barry@TETRAIRELAND.IE>
Sent: 06 March 2019 08:23
To: Eoin O'Sullivan
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Eoin,

We anticipate no impact from development at the proposed location. Can you ensure the proposal is also reviewed by eir.

Regards,
Tom

From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 28 February 2019 09:44
To: Thomas Barry
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Tom,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if Tetra has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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Eoin O'Sullivan

From: Rachel Hennessy <rachel.hennessy@towercom.ie>
Sent: 11 March 2019 17:34
To: Eoin O'Sullivan
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Eoin,

Apologies for the delay in getting back to you.

From my review, the proposed location of the windfarm would not appear have a significant impact on Towercom's sites.

In order to fully assess any impact it may have, we would require coordinates showing the turbines proposed locations.

Many thanks.

Kind regards,
Rachel

Rachel Hennessy
Towercom
M: +353 (0)86 843 9587
E: rachel.hennessy@towercom.ie

From: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Sent: 28 February 2019 09:44
To: Rachel Hennessy <rachel.hennessy@towercom.ie>
Cc: Requests <requests@towercom.ie>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Rachel,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if Towercom has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

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Mr. Eoin O'Sullivan
McCarthy Keville O'Sullivan Ltd.
Tuam Road
Co. Galway
H91VW84

McCarthy, Keville
Received
15 JUN 2019
170238
Eoin O'Sullivan

Dáta | Date
18 June 2019

Ár dTag | Our Ref.
TII19-105970

Bhur dTag | Your Ref.
170238

RE: EIAR Scoping Request: Proposed Cahermurphy Two Wind Farm in the townland of Cahermurphy and adjacent townlands, Co. Clare on behalf of Mid Clare Renewable Energy Designated Activity Company (DAC) & Coillte Cuideachta Ghníomhaíochta Ainmnithe.

Dear Mr. O'Sullivan,

Transport Infrastructure Ireland (TII) acknowledges receipt of your pre-application and EIAR Scoping request in respect of the above proposed project.

National Strategic Outcome 2 of the National Planning Framework includes the objective to maintain the strategic capacity and safety of the national roads network. It is also an investment priority of the National Development Plan, 2018 – 2027, to ensure that the extensive transport networks which have been greatly enhanced over the last two decades, are maintained to a high level to ensure quality levels of service, accessibility and connectivity to transport users.

The issuing of this correspondence is provided as best practice guidance only and does not prejudice TII's statutory right to make any observations, requests for further information, objections or appeals following the examination of any valid application referred. The approach to be adopted by TII in making such submissions or comments will seek to uphold official policy and guidance as outlined in the Spatial Planning and National Roads Guidelines for Planning Authorities (2012). Regard should also be had to other relevant guidance available at www.tii.ie. In this instance, the proposal is for a 10 no. turbine windfarm within a site of c. 492 ha. located approximately 25km southwest of Ennis and approximately 20km northeast of Kilree in County Clare. The location of the site is indicated on submitted constraints maps and is approximately 6km east of the N67 and 10 km northwest of the N68.

With respect to EIAR Scoping issues, the recommendations indicated below provide only general guidance for the preparation of EIAR, which may affect the national roads network. The developer should have regard, *inter alia*, to the following;

1. As outlined in the Spatial Planning and National Roads Guidelines, it is in the public interest that, in so far as is reasonably practicable, the national road network continues to serve its intended strategic purpose. The EIAR should identify the methods/techniques proposed for any works traversing/in proximity to the national road network in order to demonstrate that the development can proceed complementary to safeguarding the capacity, safety and operational efficiency of that network.
2. Consultations should be had with the relevant Local Authority/National Roads Design Office with regard to locations of existing and future national road schemes.
3. In relation to cabling and potential connection routing, the scheme promoter should note locations of existing and future national road schemes and develop proposals to safeguard proposed road schemes. In the context of existing

Próiseálann BIÉ sonraí pearsanta a sholáthraítear dó i gcomhréir lena Fhógra ar Chosaint Sonraí atá ar fáil ag www.tii.ie.
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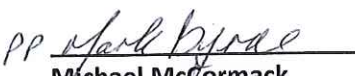
national roads, alternatives to the provision of cabling along the national road network, such as alternative routing or the laying of cabling in private lands adjoining the national road, should be considered in the interests of safeguarding the investment in and the potential for future upgrade works to the national road network. The cable routing should avoid all impacts to existing TII infrastructure such as traffic counters, weather stations, etc. and works required to such infrastructure shall only be undertaken in consultation with and subject to the agreement of TII, any costs attributable shall be borne by the applicant/developer. The developer should also be aware that separate approvals may be required for works traversing the national road network.

4. Clearly identify haul routes proposed and fully assess the network to be traversed. Separate structure approvals/permits and other licences may be required in connection with the proposed haul route and all structures on the haul route should be checked by the applicant/developer to confirm their capacity to accommodate any abnormal load proposed.
5. Where appropriate, subject to meeting the appropriate thresholds and criteria and having regard to best practice, a Traffic and Transport Assessment be carried out in accordance with relevant guidelines, noting traffic volumes attending the site and traffic routes to/from the site with reference to impacts on the national road network and junctions of lower category roads with national roads. TII's Traffic and Transport Assessment Guidelines (2014) should be referred to in relation to proposed development with potential impacts on the national road network. The scheme promoter is also advised to have regard to Section 2.2 of the TII TTA Guidelines which addresses requirements for sub-threshold TTA.
6. TII Standards should be consulted to determine the requirement for Road Safety Audit (RSA) and Road Safety Impact Assessment (RSIA).
7. Assessments and design and construction and maintenance standards and guidance are available at [TII Publications](#) that replaced the NRA Design Manual for Roads and Bridges (DMRB) and the NRA Manual of Contract Documents for Road Works (MCDRW).
8. The developer, in conducting Environmental Impact Assessment, should have regard to TII Environment Guidelines that deal with assessment and mitigation measures for varied environmental factors and occurrences. In particular;
 - a. TII's Environmental Assessment and Construction Guidelines, including the *Guidelines for the Treatment of Air Quality During the Planning and Construction of National Road Schemes* (National Roads Authority, 2006),
 - b. The EIAR should consider the Environmental Noise Regulations 2006 (SI 140 of 2006) and, in particular, how the development will affect future action plans by the relevant competent authority. The developer may need to consider the incorporation of noise barriers to reduce noise impacts (see *Guidelines for the Treatment of Noise and Vibration in National Road Schemes* (1st Rev., National Roads Authority, 2004)).

Notwithstanding any of the above, the developer should be aware that this list is non-exhaustive, thus site and development specific issues should be addressed in accordance with best practice.

I hope that the above comments are of use in your EIAR preparation.

Yours sincerely,


Michael McCormack
Senior Land Use Planner

Eoin O'Sullivan

From: Declan Campbell <dcampbell@digiweb.ie>
Sent: 01 April 2019 15:06
To: Eoin O'Sullivan; Conor Pendlebury - VTL
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Eoin,

I can confirm your current plans below will have no impact on our network.

Regards,
Declan

From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: Friday 29 March 2019 16:12
To: Declan Campbell <dcampbell@digiweb.ie>; Conor Pendlebury - VTL <conor.pendlebury@viatel.com>
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Great, thank you Declan.



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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www.mkoireland.ie



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From: Declan Campbell <dcampbell@digiweb.ie>
Sent: 29 March 2019 16:11
To: Eoin O'Sullivan <eosullivan@mkoireland.ie>; Conor Pendlebury - VTL <conor.pendlebury@viatel.com>
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Eoin,

I'll get some data back to you on Monday if that's ok.

Regards,
Declan

From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: Friday 29 March 2019 15:42
To: Conor Pendlebury - VTL <conor.pendlebury@viatel.com>
Cc: Declan Campbell <dcampbell@digweb.ie>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Conor,

Further to my email below of the 28th February 2019, can you please let me know if Viatel has links in the area outlined on the attached site location map?

Thank you for your time in this matter.

Kind Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Eoin O'Sullivan
Sent: 28 February 2019 09:47
To: 'conor.pendlebury@viatel.com' <conor.pendlebury@viatel.com>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Conor,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if Viatel has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv

Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

MKO, Tuam Road, Galway. H91 VW84

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Eoin O'Sullivan

From: Liam Allister <Liam.Allister@virginmedia.ie>
Sent: 28 February 2019 10:45
To: Eoin O'Sullivan
Cc: Cathal O'Donnell
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Eoin,

Virgin Media do not have any Links in the area of the Proposed Wind Farm at Cahermurphy at the moment. Can you inform Virgin Media if there is any change to the site location or boundaries so that we can apply it to our Link Design Program.

Regards,
Liam Allister | B2B Access Network Transmission Engineer,
Virgin Media | John F Connelly Road, Churchfield, Cork.
Liam.allister@virginmedia.ie

From: Eoin O'Sullivan [mailto:EOSullivan@mccarthykos.ie]
Sent: 28 February 2019 09:34
To: Liam Allister <Liam.Allister@virginmedia.ie>
Cc: Cathal O'Donnell <Cathal.ODonnell@virginmedia.ie>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Liam,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if Virgin Media has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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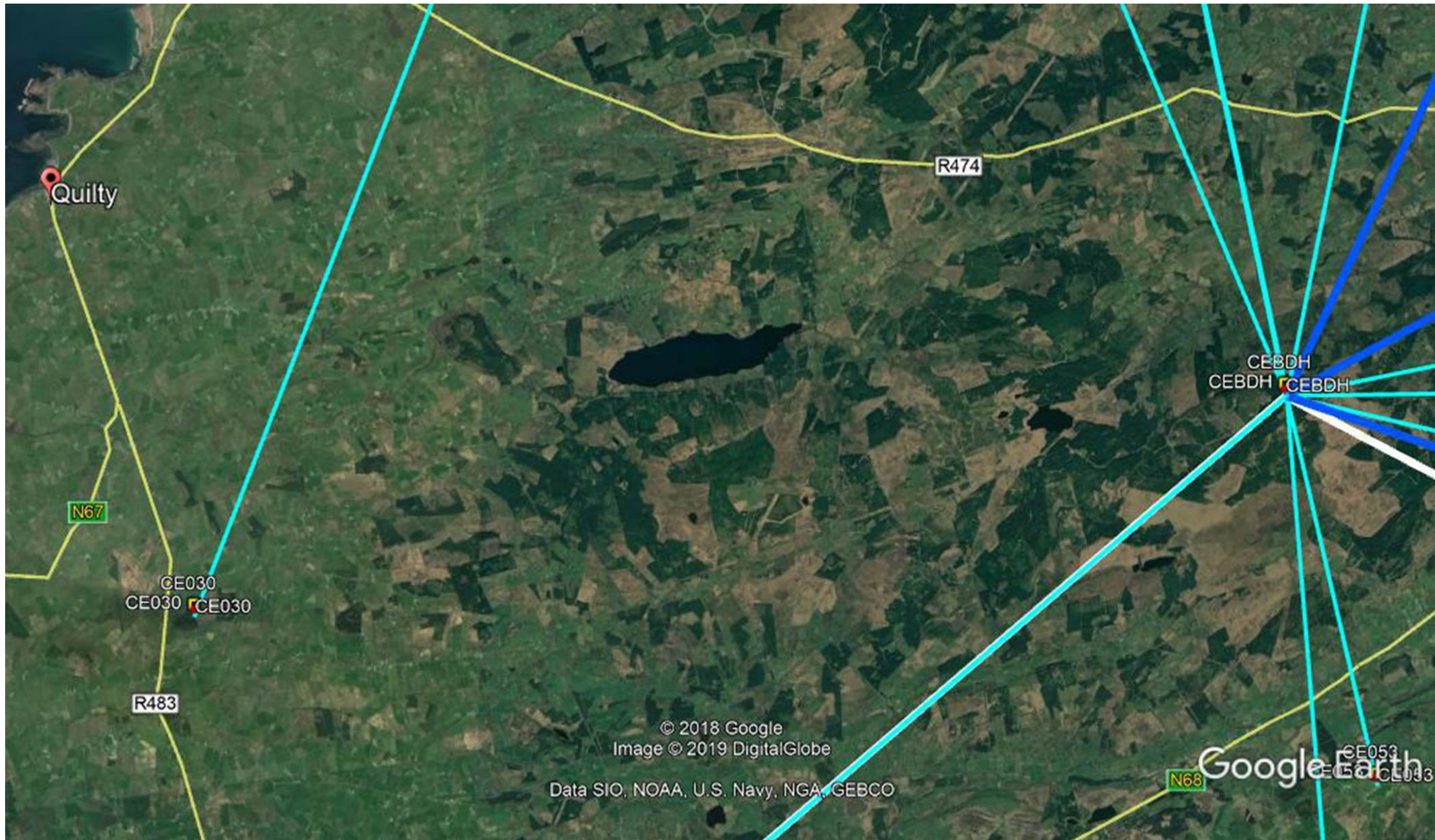
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Eoin O'Sullivan

From: Byrne, Gavin, Vodafone Ireland <gavin.byrne@vodafone.com>
Sent: 28 February 2019 16:53
To: Eoin O'Sullivan
Subject: RE: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Hi Eoin,

Doesn't look like there should be any issues in this area, see below for reference. If you want any further detail, let me know.



Gavin Byrne

TX Planning & Design Engineer
TEC-Networks Converged Transmission
+353 87 6448159
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C2 General

From: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Sent: Thursday 28 February 2019 09:45
To: Byrne, Gavin, Vodafone Ireland <gavin.byrne@vodafone.com>
Subject: Re: 170238 - Cahermurphy, Co. Clare - Proposed Wind Farm

Dear Gavin,

We are working on a constraints study for a proposed wind farm at Cahermurphy, which is located approximately 26 kilometres to the southwest of Ennis, Co. Clare. The Grid Ref coordinates for the site centre are E508533, N668982. A site location map and a shape file is also attached.

Could you let me know please if Vodafone has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

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