Cleanrath North,
Reananerree,
Macroom,
Co Cork, P12 XP60
31st August 2020

Re substitute consent for Cleanrath wind-farm – ABP 306272-19

I ask that you refuse the application for substitute consent for Cleanrath wind-farm.
I am house A (C04) recognised sensitive location

Impact:

Visibility: The turbine site dwarfs my home on approach. T14(T3) and T15(T1) have a visually imposing impact at my home

Shadow flicker: impact from T14 and T15 is considerable in the evenings in Feb/March so I'm guessing will be in Sept/Oct also. The flicker causes a strobe light effect both inside and outside against walls. I have found it impossible to work during the periods of flicker, in addition to the distraction it causes a nauseating feeling similar to motion sickness after a rocky ferry journey.

Noise: currently, whilst the turbines are not in operation they are still audible outside some days. Before they were scaled down a number of them were intermittently working and there was considerable impact. It is worse when the prevailing wind is from the SW and is fairly calm. In these conditions I am protected by the hill from the wind; the turbines are moving, but there is little or no background noise to absorb the turbine sound at my house. These are exactly the days/evenings when I would be sitting outside. On one occasion I got so fed up with the noise that I came inside and shut the patio doors. I believe it was the night of Thursday 21st May I was woken by the turbines, I contacted the company next day and was advised that all the turbines had been switched on that night for testing with the network/esb. Up until then I had only seen partial operation at any one time. The turbines were then scaled down.

I am speaking from experience of living with the operational noise, albeit for a short period of time. I was WFH from early March, and walk up the hill regularly and did not see all turbines operating simultaneously. This would suggest that the impact will be even worse in regular full operation.

Even during the short period that the turbines were intermittently operational I found the combination of shadow flicker and noise stressful, impacting both my sleep and relaxation time. I believe that if I'm subjected to this it will lead to a long term impact on my health and wellbeing.

Due to the unusual nature of this application I am able to make statements based on actual experience as opposed to looking at the figures, but I do have comment to make on the EIAR data too.

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It has been acknowledged that the background noise monitor should not have been positioned by vegetation as it will have picked up additional noise due to the foliage. (see photo). Even given this the EIAR shows a massive difference between recorded background and allowed operational noise. It can't be reasonable to allow a fixed 40dB, 43dB, 45dB against such low background noise.

Page 11-41 of the EIAR shows measured noise. The turbines were off more times than they were on during the operational measuring phase, and rarely operating together, so this can't be considered full data. I was told at the point of removal of the equipment that it was only being taken away as the turbines had to be turned off.

11.3.7.1.1 **Location A (CO4)**

The noise meter at Location A was positioned at the side of the house. The nearest turbine location is T03 at a distance of approximately 638m from the house. Distant road traffic and birdsong were noted to be the main noise sources at this location.

Plate 11-1 Location A

Table 11-12 Derived Background Noise Levels

Location	Period	Derived $L_{A90,\ 10\ min}$ Levels (dB) at various Standardised 10m Height Wind Speed (m/s)							
		3	4	5	6	7	8	9	10
A	Day	23.5	24.6	26.0	27.4	29.0	30.8	32.6	34.6
	Night	18.7	19.8	21.2	22.8	24.8	27.1	29.6	32.5

11.4.2 **Wind Turbine Noise Criteria**

Noise criteria curves in Table 11-13 have been derived for the NSL's surrounding the Cleanrath wind farm development. These limit values are determined through applying the following criteria:

- 40dB $L_{A90,10min}$ for quiet daytime environments of less than 30dB $L_{A90,10min}$;
- 45dB $L_{A90,10min}$ for daytime environments greater than 30dB $L_{A90,10min}$ or a maximum increase of 5dB(A) above background noise (whichever is higher), and;
- 43dB $L_{A90,10min}$ or a maximum increase of 5 dB above background noise (whichever is higher) for night time periods.

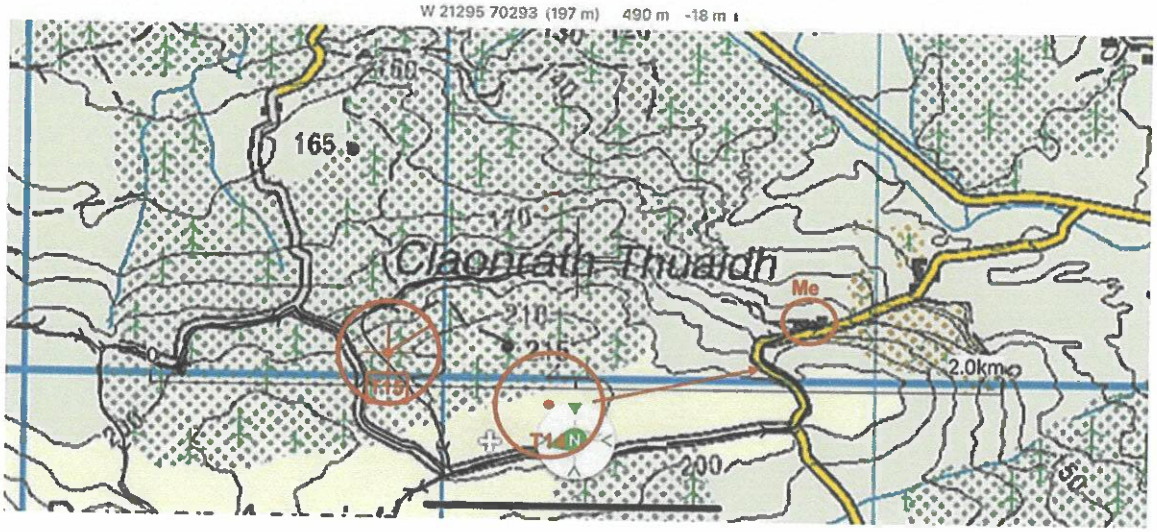
Table 11-13 Noise Criteria Curves

Location	Period	Derived $L_{A90,10\ min}$ Levels (dB) at various Standaridsed10m Height Wind Speed (m/s)							
		3	4	5	6	7	8	9	10
A	Day	40.0	40.0	40.0	40.0	40.0	45.0	45.0	45.0
	Night	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0

Water run off: has increased since the turbine bases have been constructed. In 2019 I contacted the local council due to water run off damage , they did work re-digging drainage channels and fixing the road. However within the last few weeks despite all the work the

council has done there is again extensive run off and very bad new damage to the road. Based on this latest flooding - post council work, I wondered if the turbines might be impacting. This type of road/drainage maintenance would normally be required years apart not on an annual basis.

I checked using viewranger; here's the elevation of T14 in relation to where the water is running off the hill. The arrow marks the point that the water runs out onto the road. I would suspect that the removal of the porous material at T14 and surrounds might be impacting, or that water run off has become diverted. I haven't seen damage at the point the water enters the road before 2019.

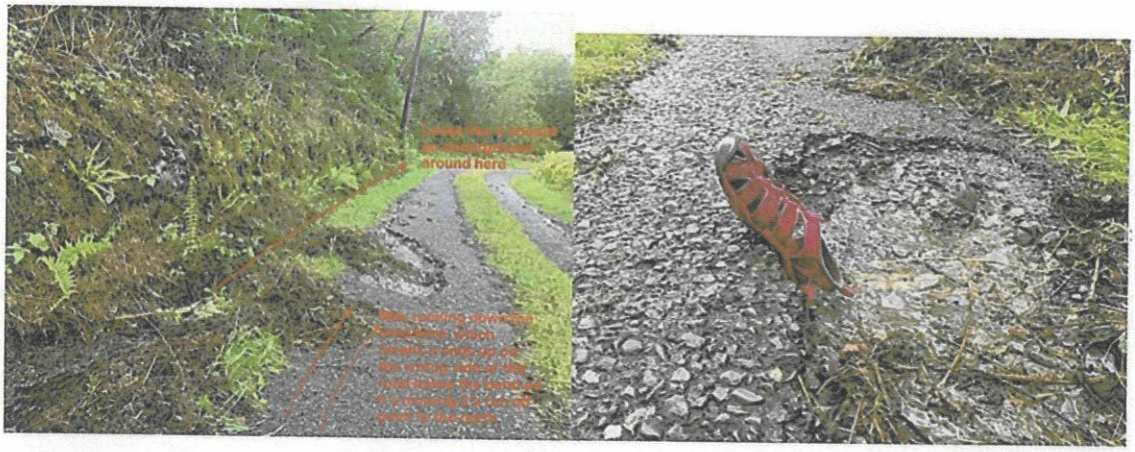


These photo's are taken August 19 and shared with James Dwyer engineer for Macroom council, who had asked that I try and identify source/route of water. Road was subsequently fixed 2019 but recent run off has caused new damage to road.

Debris washed down road and into my gate – water eroded hole at back of my house, water entered here ending up under my house

Star marks where the arrow points to on first pic. Runs off hill onto road.
The remainder of the photo's track the route of the water down road past my house.

I had to get a pointy shovel and dig the ditch out to divert the water on this occasion, to minimise impact to my house



View from my house T14 & T15

Thank you for taking the time to review my submission

Kind regards

Sharon

Sharon Clatworthy
086 4040205

View from my house T14 & T15

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Kind regards

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