

Project No: 316643

Grange Tigger (ID747) Shadow Flicker Assessment Conclusion

Prepared for:

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Contents Amendment Record

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2.0	Shadow Flicker Assessment Conclusion	07/11/2024	AC	JJ	AC



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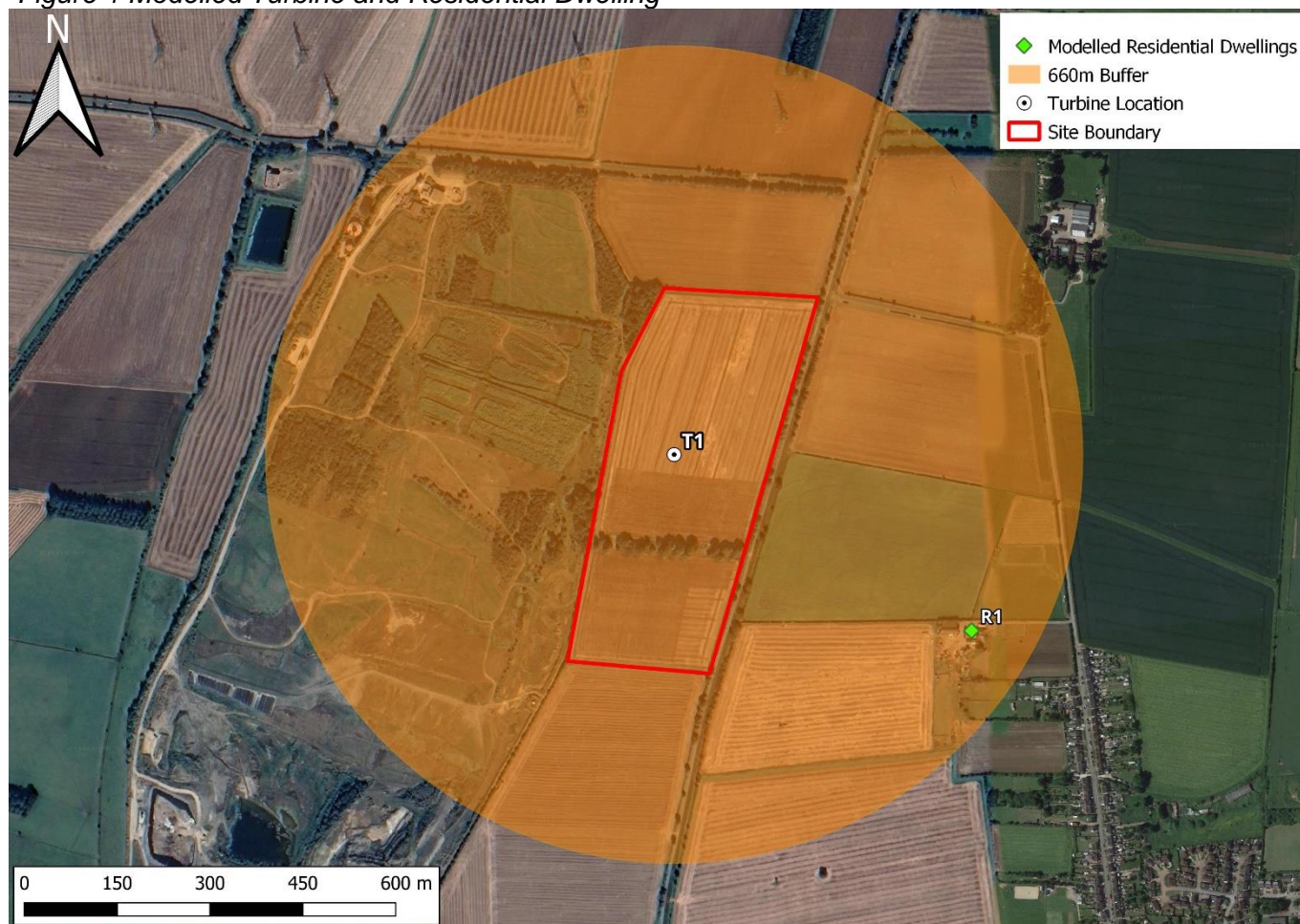


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Technical modelling was undertaken for the potential impact of a single-stick wind turbine at a site on land off the A1077/Top Road towards nearby residential dwellings.

Figure 1 Modelled Turbine and Residential Dwelling



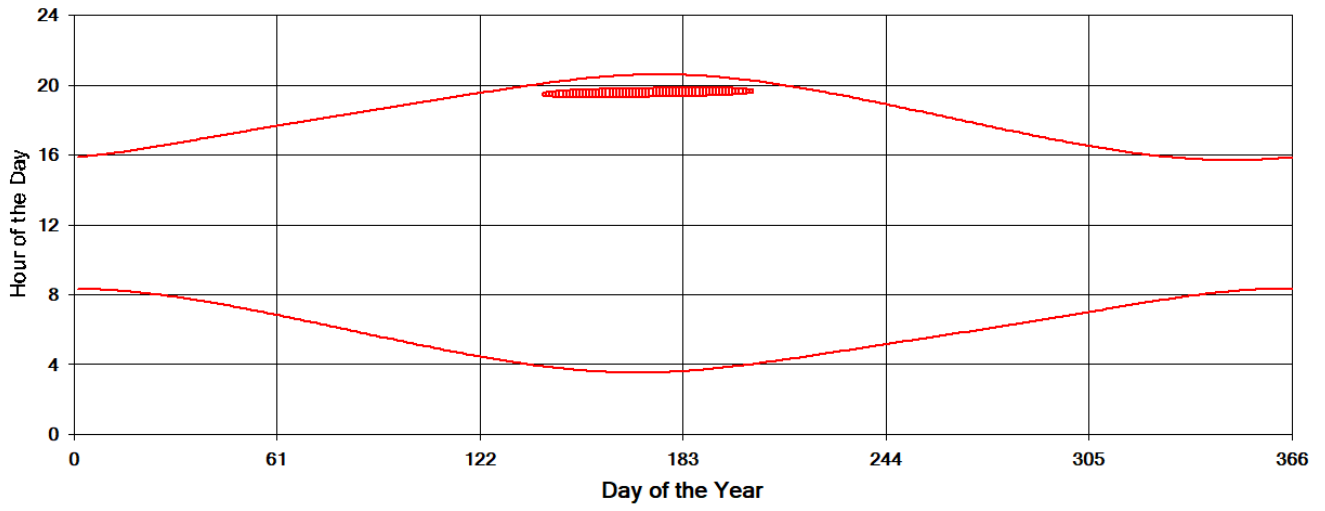
Technical modelling was undertaken for the potential impact of a single-stick wind turbine at a site on land off the A1077/Top Road. The results show that in the worst-case scenario, shadow flicker could be caused at receptor R1 for a maximum of 0.49 hours per day and a total of 28 hours annually. Though this is considered 'low impact' and the proposed development would not introduce an unacceptable impact towards the surrounding residential dwellings, shadow flicker will be fully mitigated by the operator through embedded technology within the turbine.

As such, the result of this assessment indicate that the Proposed Development does not introduce an unacceptable impact towards the surrounding residential dwellings.

Appendix A: Shadow Flicker Time Graphs

R1

Shadow Flicker at R1



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