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SUN FIELDS DREAM FIELDS LLANDARCY

Air Quality Technical Note

On Behalf of Hale Construction Ltd
July 2023

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Air Quality Assessment
Sun Fields Dream Fields Llandarcy



Document Control Sheet

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Client	Hale Construction Ltd
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Quality Management

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1 Air Quality Statement

- 1.1 Greenavon Ltd was commissioned by Hale Construction Ltd to provide an Air Quality Technical Note to support an application for a proposed ground mounted solar PV array with a generating capacity of up to 1.3MW, including development of ancillary structures, fencing and landscaping works.
- 1.2 The proposed development is found in proximity to the Crymlyn Bog Special Area of Conservation (SAC); an ecological receptor of international importance that is protected under the Habitats Regulations. As such, the Local Planning Authority, Neath Port Talbot Council, have requested that air quality be considered as part of a HRA screening assessment.
- 1.3 The proposed development will generate circa 20 vehicle trips, per day, during construction and decommissioning. Construction and decommissioning are understood to last far less than one year. As such, *annual average daily traffic* (AADT) generated by the proposal will be less than 20.
- 1.4 The Design Manual For Roads and Bridges (DMRB)¹ provides a series of criteria to screen out the impact of traffic on designated ecological sites. These include the change in AADT flows on a given road of 1000 vehicles or 200 heavy duty vehicles (HDVs). These thresholds have been widely used to screen out the need for quantitative assessment of projects/plans. As such, it can be concluded that the proposed development would have no significant impact on the integrity of the SAC, in isolation.
- 1.5 It is, however, recognised that the DMRB thresholds should be considered “in combination” with all other plans and projects in the vicinity. The proposed development is not located in proximity to any other project which, in combination, has the potential to increase vehicle numbers on the Heol Yr Ysgol, or the B4290 Ashleigh Terrace (roads abutting Crymlyn Bog SAC) by more than 1,000 vehicles or 200 HDVs.
- 1.6 Considering the above, it can be concluded that air emissions associated with the proposed solar farm do not have the potential, in isolation, or in combination with other projects and plans, to have a significant effect on the integrity of the Crymlyn Bog SAC.

¹ DMRB (2019) LA 105 Air Quality: <https://www.standardsforhighways.co.uk/search/10191621-07df-44a3-892e-c1d5c7a28d90>

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