

Longhirst Wind Farm – Noise Monitoring Survey & Locations

The noise assessments for the Longhirst Wind Farm will be undertaken in accordance with appropriate national guidance in the form of ETSU-R-97 *The Assessment and Rating of Wind Farm Noise*. The Castle Morpeth Environmental Health Officer (EHO) has been consulted, and has been kept informed of the assessment methodology and all monitoring locations.

Noise monitoring was undertaken between 7th August and 11th September 2008 with monitoring kit located at 7 residential locations throughout that period. Additionally one extra site, Hebron Hill, was monitored for one week at the request of the EHO.

- H1, Cockle Park, approximate National Grid Ref (NGR) 420192, 591132
- H2, Property on the B1337 to the north of Longhirst, NGR 422243, 589950
- H3, initially monitoring occurred at a property immediately south of Longhirst Dairy NGR 422003, 589171
Since 18/08/08 H3 was relocated to Croft House, Longhirst, NGR 422101, 589064
- H4, Property on B1337 on south side of Longhirst Golf Course NGR 421533, 588150 (west of Fawdon House)
- H5, East Shield Hill NGR 419917, 588109
- H6, Property at the very eastern edge of Hebron NGR 419646, 589626
- H7, The Cockles NGR 421643, 591512
- H8, Hebron Hill, Morpeth, NGR 418955, 590160 – 1 week only

As part of the noise monitoring assessment there is also a requirement to measure wind speed and direction at ten metres height, as well as periods of heavy rainfall. Sufficient wind conditions must be experienced over the noise monitoring period, namely a good range of wind directions and windspeeds ideally between 0 ms⁻¹ and 12 ms⁻¹ during daytime and night-time periods and during periods of no rainfall.

In order to measure the wind data, a 10m wind mast was located at approximate National Grid Ref: 420935, 589595 for the duration of the study.

The results of the noise monitoring studies will be used to design the final wind turbine layout, number and specification of wind turbines.