



**METRO NORTH
ORAL HEARING**

Proof of Evidence

TBM Spectra Information

Mr. Rupert Taylor

RAILWAY PROCUREMENT AGENCY
 Metro North Oral Hearing
 Note by Rupert Thornely-Taylor 1 December 2009

In response to questions by Dr Massarsch, the following figures provide the requested spectrum information.

Figure 1 shows the spectrum of measured vibration from the Dublin Port Tunnel used to calibrate the Findwave[®] model. Figure 2 shows spectra of the modelled vibration for the Metro North Tunnel, corresponding to the data provided in Figures 14 and 16 of the report “Tunnel Boring Groundborne Noise & Vibration August 2 2007” (Oral Hearing Document) for 20m of ground cover.

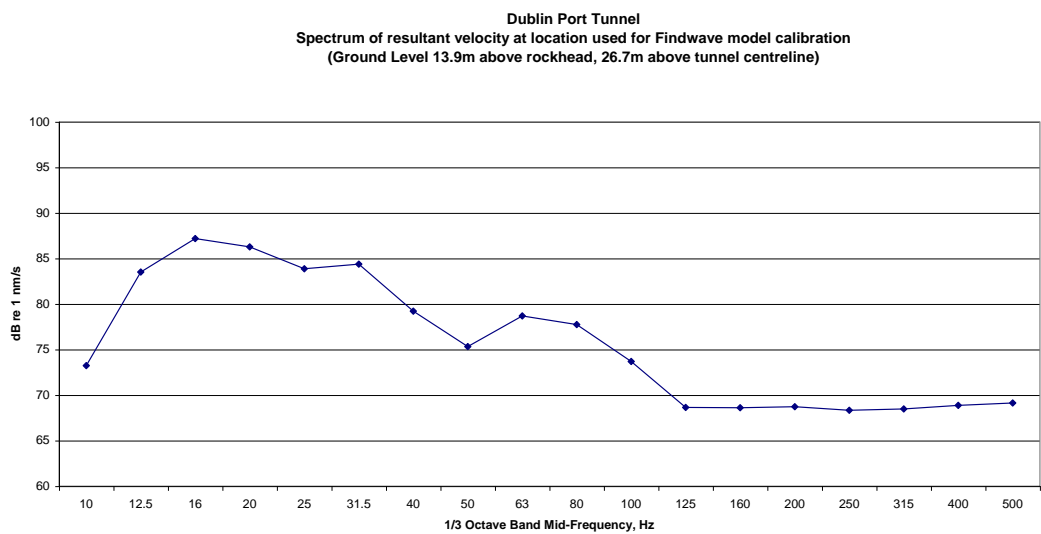


Figure 1 Spectrum of measured vibration above Dublin Port Tunnel

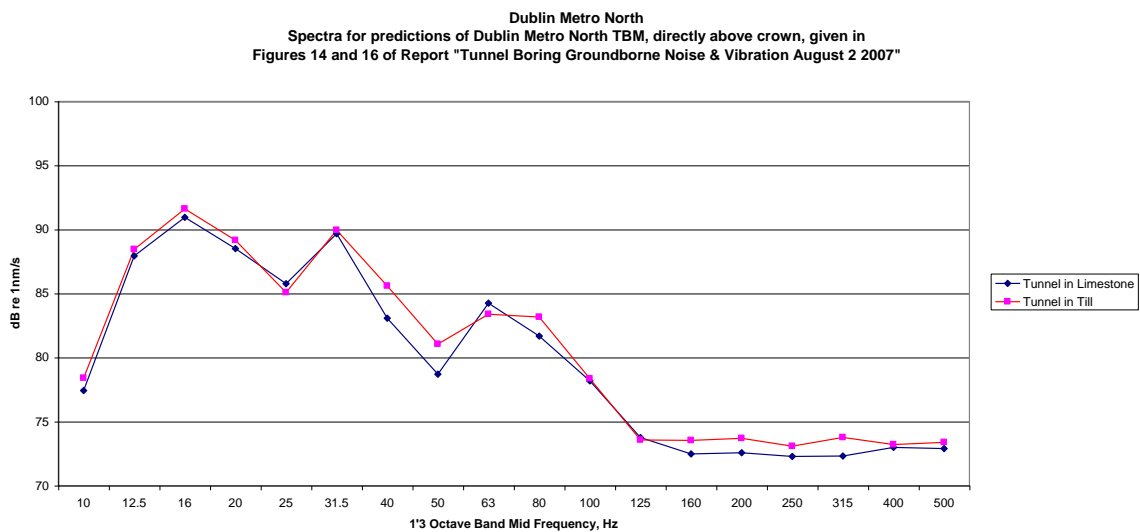


Figure 2 Spectra of the modelled vibration for the Metro North Tunnel, for 20m of ground cover

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