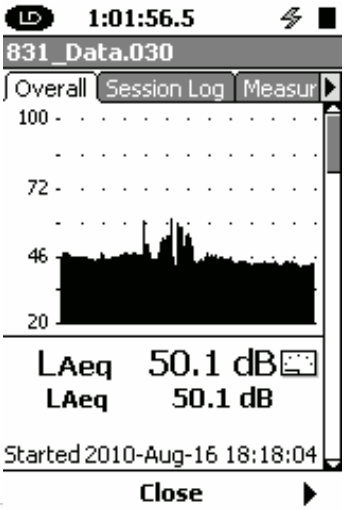
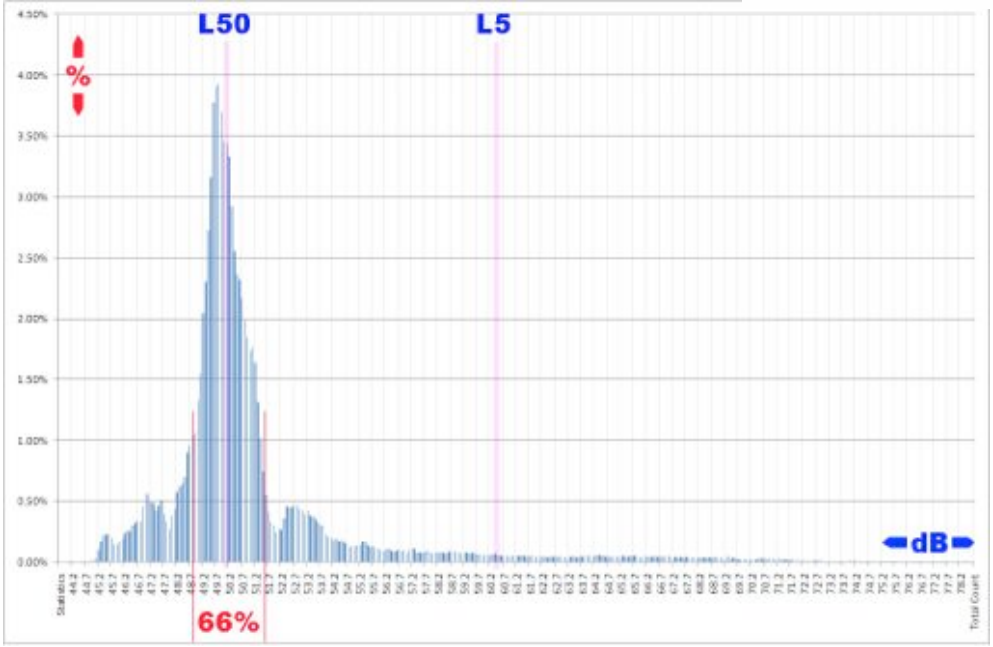
WES Noise Measurement and Modeling

Noise Measurement:
WES Engineering Inc. can perform ambient noise measurement using its Larson Davis Model 831 Sound Meter. These measurements can include several days and nights of measurement from various locations in the project area, to document the background sound power level before and after the wind project is operational.





Sound Modeling:
WES Engineering staff use Windfarmer software to model the sound isolines produced by the wind turbine at its maximum sound output. The sound isolines are used to show maximum levels of sound from the wind turbines at residences or property lines, to assist in permitting and compliance with local ordinances.

Below is sample output of sound isolines from a single turbine, with output values in dBA. The red isolines are 46 dBA and above, an area that many communities noise ordinance prohibit exceedance during night time for nearby residences. This modeling is “worst case” and actual measurement of background sound levels that look at the average level, “Leq”, give values below the worst case values.