

Noise and Vibration

Stuart Michael Associates Limited (SMA) as a company are able to undertake a wide variety of noise and vibration assessments. SMA use up to date measuring equipment resulting in the best and most reliable measurements regardless of the situation.

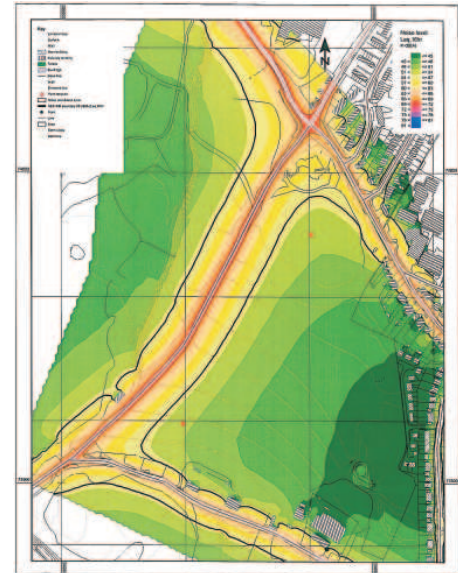
For many years now SMA have undertaken noise and vibration assessments for clients wishing to know the development potential of sites in noisy locations. At the initial stage this is done through environmental noise monitoring using a Class 1 sound level meter and vibration monitoring equipment.

Where information is required for future situations SMA are able to create detailed noise models incorporating multiple sources using the model package SoundPLAN.

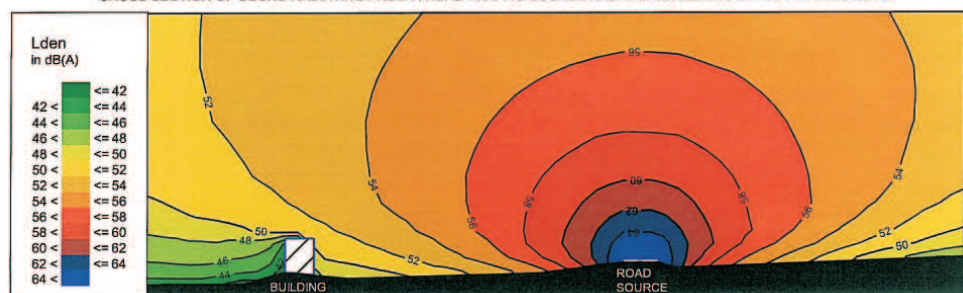
SoundPLAN is a three dimensional graphics oriented program which utilises the methods prescribed in CRTN and CRN to calculate noise levels from road and rail traffic, and industrial noise is assessed to ISO 9613 Part 1 and 2.

The results from the measurements and modelling are compared with the latest government guidance and British Standards and a strategy is formulated on how to proceed. SMA can provide advice on all aspects of site development from the initial stages in the planning process through to detailed technical specifications for discharging planning conditions.

Previous projects have included residential developments ranging from a few buildings to 5000 plus homes, mixed use developments with residential dwellings within tens of metres of commercial units, commercial developments within established residential areas and industrial processes including the relocation of an MRF.



CROSS SECTION OF SOUND RADIATING FROM A ROAD TRAFFIC SOURCE AND THE SCREENING EFFECT OF A BUILDING



SMA provide the following services

- Transportation
- Infrastructure
- Civil Engineering
- Structures
- Water and Environment
- Project Management