

“Where will our knowledge take you?”

Environmental Noise and Vibration

From monitoring and modelling to planning and control.

Environmental noise management is now more stringent than ever with a number of recent legislative and regulatory control measures being introduced. From the permitting of large scale industry to acoustic design standards of new hospitals and schools, the chances are that at some point you will have to demonstrate the effective use of noise control measures or have a Noise and Vibration Management Plan in place.

BMT Cordah aim to simplify the process of noise management and assessment. Taking a pragmatic approach we can identify cost effective solutions to existing noise problems and provide effective design advice to allow you to comply with the appropriate standards.

Noise and vibration consultancy

- PPC and IPPC Applications and conditions
- Liaison with environmental agencies and local authorities
- Environmental Impact Assessments
- Demonstration of compliance with planning conditions
- Advice for companies in receipt of a Noise Abatement Notice

- Mechanical ventilation strategies; Prediction of job-side and atmospheric-side noise levels
- Natural ventilation strategies; prediction of internal ambient noise levels
- Building façade and glazing performance
- Noise control techniques and mitigating measures
- Expert witness and Public Inquiry evidence
- Occupational Noise (Noise at Work Regulations)

Noise Assessments

BMT Cordah is experienced in conducting assessments to a wide variety of standards including:

- BS 4142 industrial noise affecting residential areas
- BS 5228 noise from construction and open sites (e.g. mineral extraction, landfill)
- ETSU-R-97 - assessment of noise from wind farms
- Calculation of road traffic noise, CRTN
- Calculation of railway noise, CRN
- BREEAM
- PAN56, PPG24

Monitoring

BMT Cordah understands the fundamental role which reliable noise monitoring can play in subsequent assessments and investigations. We are available to advise, assist and carry out all aspects of environmental noise monitoring including infrequent events (pop concerts, motorsports etc), long term baseline monitoring and occupational noise exposure.

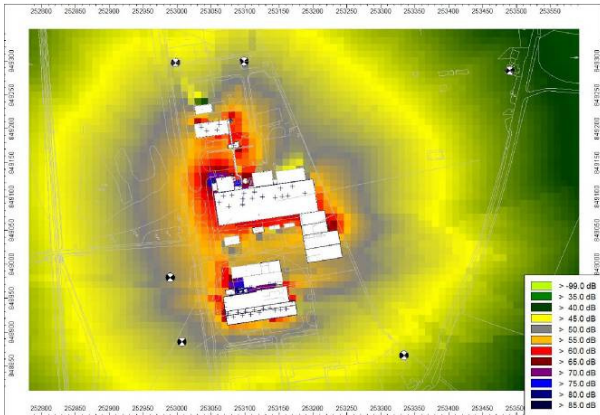




About us

BMT Cordah, a wholly owned subsidiary of BMT Group Limited, represents a new approach to the traditional environmental consultancy business, capable of delivering significant, integrated environmental services and solutions in the UK and overseas.

A leading multidisciplinary engineering, science, and technology consultancy, BMT offers a broad range of services, particularly in the defence, energy, environment, shipping and general transportation sectors.



Advanced prediction methods

As well as offering traditional methods of assessment and prediction, BMT Cordah utilise state of the art computer modeling techniques. Software models allow detailed assessment of complex situations and enable customers to easily understand the predicted environmental noise levels and the effectiveness of noise control schemes. BMT Cordah use industry standard software such as CadnaA as well as developing their own modeling software, for example, ISAAC, a programme capable of modelling underwater noise propagation from sources such as exploration drilling, offshore piling, pipeline laying and harbour/port development.

Example projects

Strabane Mills CHP Plant, N.Ireland

Background noise monitoring. Prediction of noise levels and design of building façade and mitigating measures for CHP Wood Waste to Energy Plant for planning application.

540 Mw Viking Windfarm, Shetland, Airtricity

Noise assessment using ETSU-R-97 methodology for EIA.

Underwater Noise Assessment, Moray Firth

(Client Confidential)

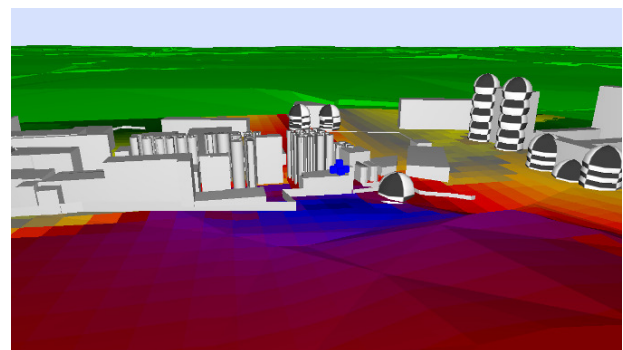
Underwater noise impact assessment of effects of drilling, pipeline laying and oil production on bottlenose dolphins in the Moray Firth Special Area of Conservation

Dunstaffnage Science Park, ROK

Baseline noise monitoring and noise assessment for planning conditions. Prediction of construction and road improvement noise levels and advice on mitigating measures. Prediction of noise levels from increased traffic flows in accordance with DMRB and CRTN.

Coal fired power station, Mauritius

Modelling and predictions of noise from construction activities of coal fired power station. Design of noise monitoring programme and protocol for responding to complaints or incidents regarding noise from the site. Completed as part of EIA.



Web: www.bmtcordah.com
Email: enquiries@bmtcordah.com

BMT Cordah Ltd
113 West Regent Street
Glasgow, G2 2RU

Tel: 0141 2213236
Fax: 0141 248 7986