



NOISE AND VIBRATION CONSULTANCY

BMT Cordah Limited

Noise issues are amongst the most frequent complaints received by Local Authority Environmental Health Officers. A number of legislative and regulatory control measures have been introduced in response to this, including significant new requirements to demonstrate noise prevention under IPPC. Noise assessments may therefore be required for a variety of reasons, including:

- IPC and IPPC Applications and liaison with SEPA
- Planning applications
- Demonstration of compliance with conditions of planning consent
- Compliance with corporate environmental standards
- Investigation of nuisance complaints
- Environmental Impact Assessment
- Building façade and glazing performance
- Control techniques
- Expert witness and Public Inquiry evidence
- Occupational Noise (Noise at Work Regulation)

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.

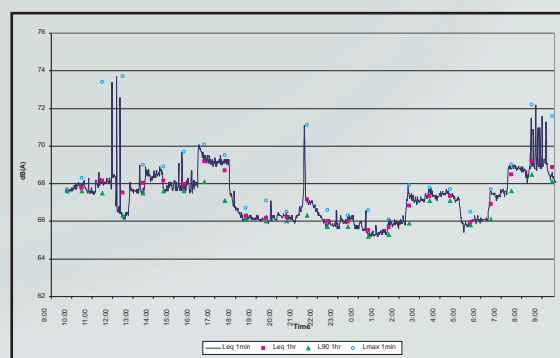
Our staff are familiar with the relevant standards and procedures for the prediction of noise, including:

- BS 4142 – industrial noise affecting residential areas
- BS 5228 – noise from construction and open sites (eg mineral extraction, landfill)
- ETSU-R-97 - assessment of noise from wind farms
- Calculation of road traffic noise
- Calculation of railway noise
- Calculation of NR/NC levels in dwellings from external noise sources
- Sector requirements for BAT under IPPC

Noise Assessment

Noise assessment should be considered as part of an integrated process of scheme design. By addressing noise issues at an early stage of the design process, it will:

- Examine alternatives in noise terms
- Allow the scheme design to be optimised to take account of noise constraints



Results of Ambient Noise Measurements

Mitigation and Control

BMT Cordah offer independent advice on a wide variety of mitigation and control measures. We aim to identify cost-effective noise control which is available in many forms, including:

- Consideration of alternatives (e.g. site layout, equipment type, operational methods)
- Acoustic control of noise source (e.g. fitting of silencer)
- Provision of screening between source and receiver
- Improved insulation at receiver (e.g. enhanced glazing)

Noise and Vibration Consultancy

Examples of Recent Projects

2002 Proposed Wind Farm, Peterhead (Client Confidential)

Noise assessment using ETSU-R-97 methodology of proposed 35-turbine wind farm near Peterhead for Environmental Impact Assessment

2002 EarthTech Engineering

Noise monitoring and interpretation study to assess compliance of four major wastewater treatment plants with contractual noise conditions. Discussion of nuisance potential.

2001 Blue Circle Industries Cement

Scoping for noise assessment for compliance with PPC requirements including identifying noise monitoring locations, parameters and durations for monitoring by Blue Circle staff. Analysis of results and discussion of principal noise sources, mitigation and compliance with BAT.

2001 Dundas Brothers

Noise measurements and impact assessment for Environmental Impact Assessment (EIA) for a waste to energy plant in Aberdeenshire and negotiations with SEPA.

2001 Arjo Wiggins Paper Mill

Noise survey and interpretation for major Aberdeen papermill for submission as part of PPC application also prepared by BMT Cordah.

2001 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.

2000 Arup Scotland/Morrison Homes

Noise and odour assessment for proposed extension to Newmachar WWTP.

2000 Balfour Beatty/EarthTech Engineering

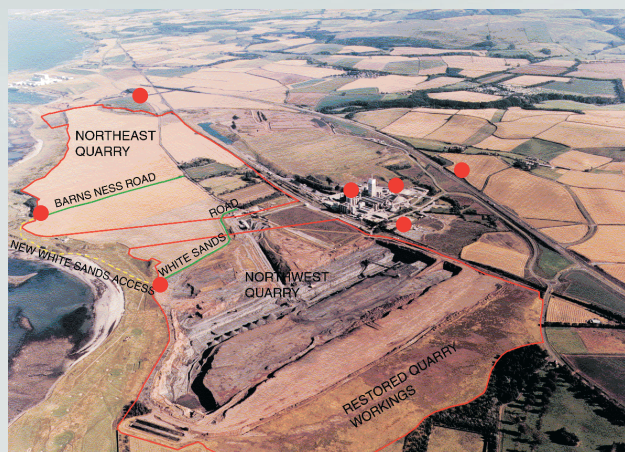
Noise measurement of plant and background noise at new WWTP regarding compliance with planning and contractual conditions on noise.

2000 Egger Ltd

A boundary noise survey was undertaken at site in Ayrshire, Scotland in order to provide data to support a planning application for an extension to the existing plant.

1999 - 2000 Stoneyhill Landfill Extension EIA

Noise impact assessment as part of EIA for proposed extension to municipal landfill site in Aberdeenshire.



Noise Monitoring Locations at Blue Circle Cement

Complementary Services

- Environmental Impact Assessment
Management, specialist, input and preparation of environmental statements.
- PPC - Permitting
- Public Inquiry
- Workplace noise assessment
- Process selection and optimisation



BMT Cordah Limited

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