

## Minimising noise impacts

QGC Pty Limited understands that noise is a sensitive issue for landholders. During operations we take precautions to ensure noise associated with our activities is kept to a minimum and within acceptable limits.

QGC, the wholly owned Australian subsidiary of BG Group, is developing coal seam gas in the Surat Basin of southern Queensland for domestic and export markets through its Queensland Curtis LNG Project.

Expanding QGC's gas fields to supply the project will involve drilling, construction and transportation activities that elevate existing levels of noise in some areas.

This fact sheet outlines QGC's approach to minimising noise impacts from our operations.

### Minimising noise impacts from QGC's activities

#### Seismic surveys

All equipment used in seismic surveys is designed to minimise noise impacts on landholders. For example, QGC uses Envirovibes vehicles, which are lighter and quieter than standard units.

#### Production wells

Once coal seam gas production has started, wells will operate 24 hours a day. While some production wells are 'free flowing', others need a pump to extract the gas and water.

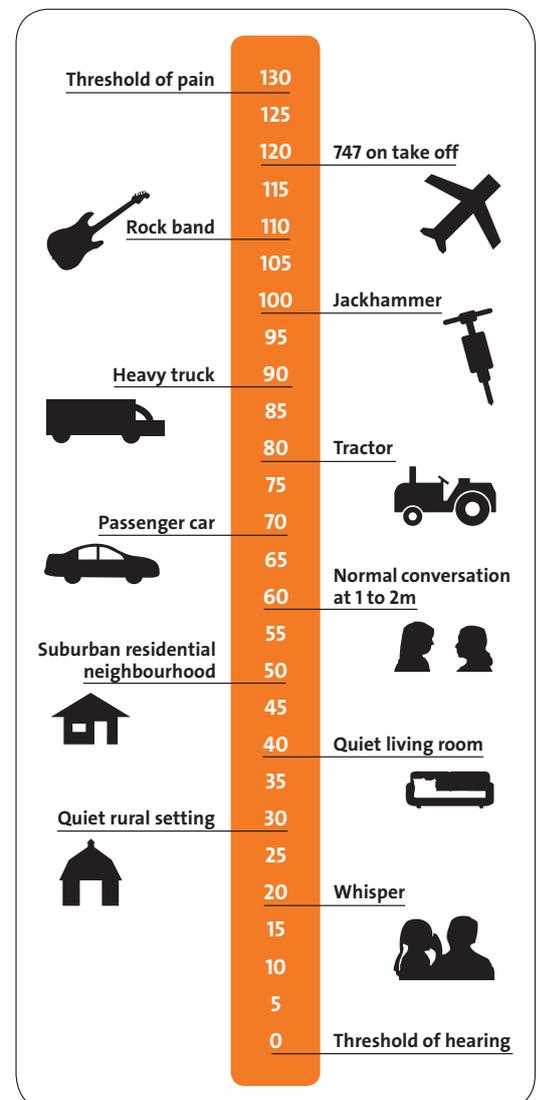
QGC has replaced most diesel powered well pumps with quieter equipment to reduce noise from the pumps. These pumps have better insulation and a quieter engine.

#### Construction of pipelines and gathering systems

Pipeline construction is relatively intensive at any one point along a route. This means that noise and other impacts are short term.

QGC will liaise with affected landholders or the community on the likely duration of activities. In certain circumstances, particularly noisy activities (e.g. rock hammering) may be done at agreed times less likely to cause nuisance to nearby residents.

Construction work will not occur between 6pm and 6am unless written agreement is received from landholders with an occupied dwelling within 200 metres of the work.



Noise levels from common activities.

## Traffic

At night, between 6pm and 6am, QGC will seek to minimise all vehicle movements on rural residential properties.

Special speed limits apply for QGC vehicles to minimise noise and ensure safe passing:

- 20 km/hr within 200 metres of dwellings
- 40 km/hr elsewhere on rural residential properties.

## Noise modelling

Potential noise impacts from our activities on nearby landholders are identified early in QGC's planning. Detailed noise modelling helps determine the extent of the impact and allows us to develop mitigation plans to ensure the impact is kept below acceptable limits.

Noise modelling involves placing contours on a map to illustrate the direction and volume of the noise.

If noise is expected to exceed acceptable limits action is taken to reduce the noise emissions. This may involve relocating the machinery or activity or negotiating arrangements with potentially affected landholders.

## Acceptable limits

Noise is measured in decibels perceived by the human ear. There may be 40 decibels generated in a quiet living room while a rock band may perform at a level of 110 decibels.

Country areas typically have lower levels of background noise than cities, but noise exists nonetheless from passing cars, other vehicles, insects and the operation of farm machinery.

Acceptable limits for day and night time noise are set above the respective background noise levels by regulators.

## Noise contour map



Noise contour map shows the direction and volume of noise. In this example noise does not reach the neighbour's property.

## About QGC

QGC is a leading Australian coal seam gas explorer and producer focused on developing world-class reserves in the Surat Basin and Bowen Basin for domestic and international supply.

Our headquarters are in Brisbane and we employ nearly 1000 people.

In 2009, QGC produced about 20% of Queensland's gas demand.

QGC is wholly owned by BG Group, a leading oil and gas company with headquarters in the United Kingdom and operations in more than 25 countries.

## Our commitments

We seek to minimise the effects of our operations on landholders

We make a positive contribution to the protection of the environment

We run our business in accordance with all government regulations, industry standards and the access rules that we agree with landholders

Our staff, contractors and consultants follow QGC's Code of Conduct, outlined in the 'Information for Landholders' booklet and available via our website: [www.qgc.com.au](http://www.qgc.com.au)

## Contact details

Please contact QGC for more information.  
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