

should be reduced by 5 dB(A); if the noise source is completely screened, the noise level should be reduced by 10 dB(A)". The above table only reduces the noise level by 5 dB(A), as plant is not in place to check sighting from the sensitive receptors.

Note 3: Maximum noise emission is calculated to include Ground Effect and the Earth Bund, where it is present.

4.3 GAS

Three locations have been chosen to monitor gas levels. Permanent sensors will be placed at the following:

- Vent stack (for direct emissions)
- Bund (for localised emissions)
- Perimeter fence or office (for background levels).

Both permanent and hand-held gas sensors will be used to measure the condition of the equipment and environment.

Gas is not expected to be released from the system, however in case of emergency, all sensors will be connected to an automated shut down, which will stop and close in the producing wells.

4.3.1 Vent Stack

As the storage tanks are filled, the produced fluid displaces the headspace volume. Therefore the headspaces of the stock tanks must be vented to allow for the changes in volume. The headspace gas will first pass through an ammonium gas scrubber and then vent at a minimum height of 7 metres above the site ground level. The vent will be continuously monitored with electronic sensors in line with the Environment Agency's IPPC regulations.

4.4 DUST

Dust will not be generated as a direct result of production operations as the entire site is covered in hardcore and scalplings. The site road is owned and operated by Southern Water and is covered in tarmac.

4.5 ODOUR

There are two possible sources of odours on-site: crude oil and ammonium. Produced fluids are not exposed to the open air and therefore will not normally pose an odour risk. However there is a requirement for an infrequent periodic visual inspection of the storage tanks which will allow a mild odour of oil to be released for a short period of time. Midmar does not expect the odour to be detected anywhere except in close proximity to the banded area.