

## **Guidance Note for Gas Monitoring**

The principle guidance document concerning landfill gas control is Waste Management Paper 27 (WMP27), first issued by Her Majesty's Inspectorate of Pollution in 1989 and subsequently revised in November 1992. This provides technical advice on the investigation and monitoring of both closed and active landfill sites.

In addition to WMP27, The Building Regulation 1991 (Schedule 1) requires that precautions be taken to "avoid danger to health and safety caused by substances on or in the ground". Methane and carbon dioxide are included in the list of contaminants in approved Document C and advice on buildings protection is given in Building Research Establishment (BRE) Report: Construction of New Buildings on Gas Contaminated Land.

Waste Management Paper 27 defines a gassing site as being when the maximum concentration of flammable gas from biodegradation within the landfill remains above 1% methane by volume (20% LEL) and carbon dioxide remains above 1.5% by volume. The site is only considered to have stabilized if values of less than these figures are measured, in any location within the wastes, on at least four separate occasions over a 24

With respect to gas migration, the concentration of gas in the ground outside either the area of the waste, or the zone of influence of the gas control system whichever is greater, should not exceed 1% methane by volume (20% LEL) or 1.5% carbon dioxide.