

**Table Showing Details on Number of Samples And Sampling Periods for Gas Monitoring (Excerpt from CIRIA c665)**

A minimum number of boreholes( no less than 3) and rounds of gas monitoring must be carried out based on the guidance CIRIA c665: “Assessing Risks Posed By Hazardous Ground Gases To Buildings” with a minimum of at least two sets of readings as low and falling atmospheric pressure.

**Table 5.5a** *Typical/idealised periods of monitoring (after Wilson et al, 2005)*

		Generation potential of source				
		Very Low	Low	Moderate	High	Very High
Sensitivity of development	Low (commercial)	1 month	2 months	3 months	6 months	12 months
	Moderate (flats)	2 months	3 months	6 months	12 months	24 months
	High (residential with gardens)	3 months <sup>1</sup>	6 months	6 months	12 <sup>1</sup> months	24 months

**Table 5.5b** *Typical/idealised periods of monitoring (after Wilson et al, 2005)*

		Generation potential of source				
		Very Low	Low	Moderate	High	Very High
Sensitivity of development	Low (commercial)	4	6	6	12	12
	Moderate (flats)	6	6	9	12	24
	High (residential with gardens)	6 <sup>1</sup>	9	12	24 <sup>1</sup>	24

**Note**

- 1) NHBC guidance also recommends this period of monitoring (Boyle and Witherington, 2007).
- 2) There is no industry consent over ‘high’, ‘medium’ or ‘low’ generation potential of source.
- 3) At least two sets of readings should be at low and falling atmosphere pressure (but not restricted to periods below <1000 mb) known as worst case conditions. Historical data can be used as part of the data set (Table 5.5b).