



Air Quality Assessment and Mitigation Scheme for a Residential Development in Stoke

Background

Miller Goodall Ltd (MGL) was appointed to undertake an air quality assessment for a development of 37 dwellings on the site of a former pottery in Stoke. The aim was to assess the impact of the development on both existing air quality and air quality for future occupants of the development.

Action Taken

Consultation was undertaken with the Local Authority's Air Quality Officer, who confirmed that part of the development site lay within an air quality management area declared on the basis of annual average levels of nitrogen dioxide.

Figure 1: Location of site and of nitrogen dioxide monitoring

The levels of nitrogen dioxide measured at locations close to and representative of the site were ascertained. These results indicated annual concentrations of nitrogen dioxide were at or above the annual air quality objective.



The assessment concluded that;

- The impact of the development on existing air quality would be insignificant and a full detailed air quality assessment involving modelling was unnecessary.
- There was a possibility that future residents of seven of the proposed dwellings facing directly onto the main road adjacent to the site could be exposed to levels of nitrogen dioxide above relevant air quality objectives.

Mitigation, in the form of a mechanical ventilation scheme that takes air from the "clean" side of the development into the dwellings, was recommended for the seven dwellings facing onto the main road. No mitigation was recommended in respect of the remainder of the scheme.

Summary of Findings

Planning permission was granted for the development in February 2013. A condition was placed upon the planning permission requiring a forced ventilation system to be installed in certain dwellings, as identified in the air quality assessment.

For more information about us, visit our website at www.millergoodall.co.uk. If you would like to discuss how we can help your project, please contact Miller Goodall on 01204 596166 or email info@millergoodall.co.uk.