



Air Quality Assessment for Residential Development in Shropshire

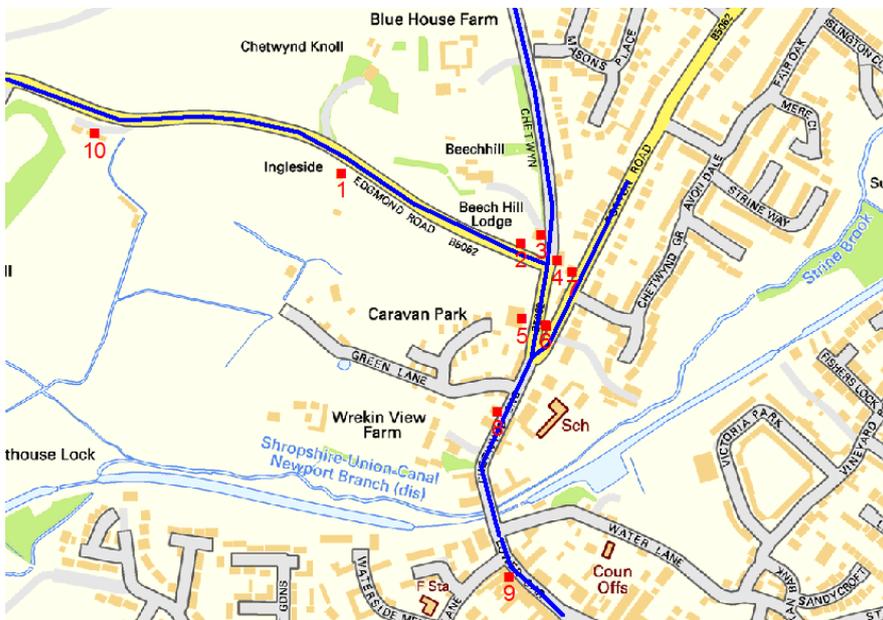
Background

Miller Goodall Ltd (MGL) was appointed to undertake an air quality assessment in relation to a residential development in Newport, Shropshire. This assessment was required by the Local Authority to support an outline planning application for 85 dwellings and associated landscaping and car parking. The development is not situated within an Air Quality Management Area (AQMA) but the scale of the development raised the possibility of significant impacts on air quality.

Action Taken

An assessment was carried out using ADMS Roads modelling software. A review of existing air quality in proximity to the development site was undertaken to establish the suitability of the site for residential development. Potential local air quality impacts associated with traffic generated by the development were assessed at existing residential receptors.

Figure 1. Map of Roads and Receptors Considered in the Assessment



In order to populate the model, data was collected in relation to baseline air quality conditions at the site, meteorological conditions and traffic flow associated with the development. National guidance was used to provide criteria for magnitude of change and related significance of quantified impacts as a result of the development.

Background pollutant concentrations of nitrogen dioxide and fine particulate matter (NO₂ and PM₁₀) for the baseline year and opening year of development were predicted to be below the respective air quality objectives. Additionally, vehicle exhaust emissions from traffic generated by the proposed development were predicted to have a negligible impact on local air quality at identified sensitive receptor locations in proximity to the road network.

Summary of Findings

The assessment concluded that there was no reason why the development should not proceed on the grounds of air quality. Subsequently, Telford and Wrekin Borough Council granted planning permission for the development in July 2013.

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.