

Air Quality Bigland Street



Appointed by Campbell Reith, ACCON carried out a comprehensive air quality assessment for the redevelopment of the Darul Ummah School in Bigland Street, London Borough of Tower Hamlets.

The proposal included the demolition of the existing school building, Jamiatul Ummah School and the development of a new 450 pupil capacity school, to include prayer halls, community facilities, on-site pupil residencies and a secondary school with an elevated playground.

Located in an Air Quality Management Area, the issues of ambient pollution levels and air quality and dust generation were raised by the Council.



The detailed air quality assessment considered the overall levels of hydrocarbons, nitrogen dioxide (NO₂) and particulates (PM₁₀) in the vicinity of the site. Pollutant concentrations suggest that in the area of the proposed development, it was unlikely that air quality limits would be exceeded or constrain development. The additional traffic generated during the construction and operational phases would not result in a significant impact on air quality.

The development would be seven storeys high with three basement storeys which include the sports facilities; an outdoor playground would be situated on the fifth floor, where the air quality would not be an issue as NO₂ concentrations reduce with height.



Additionally a risk assessment for dust generation during the demolition and construction activities was completed at the request of the Council. The assessment identified that the risk of significant adverse effects resulting from emissions of fine particles and dust during demolition of existing buildings and construction of the new development, would be medium as defined in the London Best Practice Guidance.