DUDLEY MBC AIR QUALITY MONITORING STATIONS

**Site Name**
Burnt Tree

**Site address**
Ernest Road, DY2 7QU

**OS Grid Reference**
395761 290575

**Site Type**
Roadside

**Start Date**
01 August 2010

**Monitoring Activities**
PM$_{10}$, monitored using a TEOM 1400ab Analyser
NO, NO$_2$, NO$_x$, monitored using an API M200 Chemiluminescent Analyser

The monitoring station is within a street box located to the south of the A461 Birmingham Road, a retail superstore and the Bunt Tree traffic junction. The station was commissioned in August 2010 to monitor the air quality impacts of constructing the new superstore and physical changes to the local road network. The station lies within 10.5m of the main carriageway, the manifold inlet is 1.5 metres above ground level and the site is approximately 170m ASL. The surrounding area includes a major road junction, commercial / retail units and residential accommodation. Data from this station is representative of typical exposure levels found at residential properties in the vicinity. There are three diffusion tubes at this station, co-located with the NOx analyser, and this data is used to calibrate the local NO$_2$ diffusion tube network.