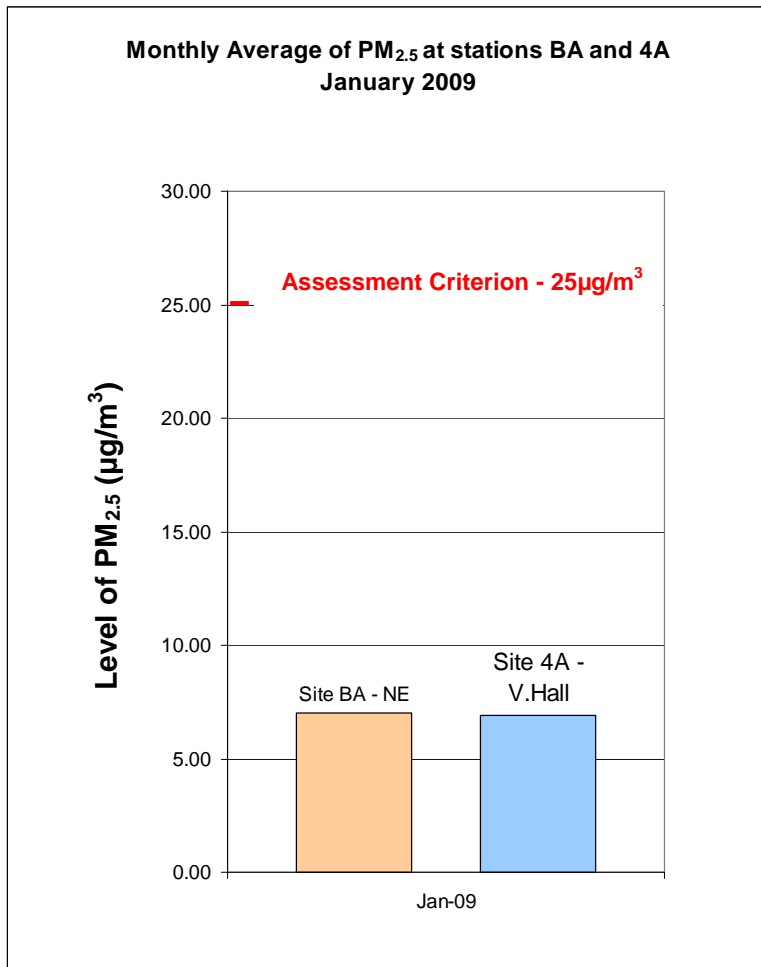


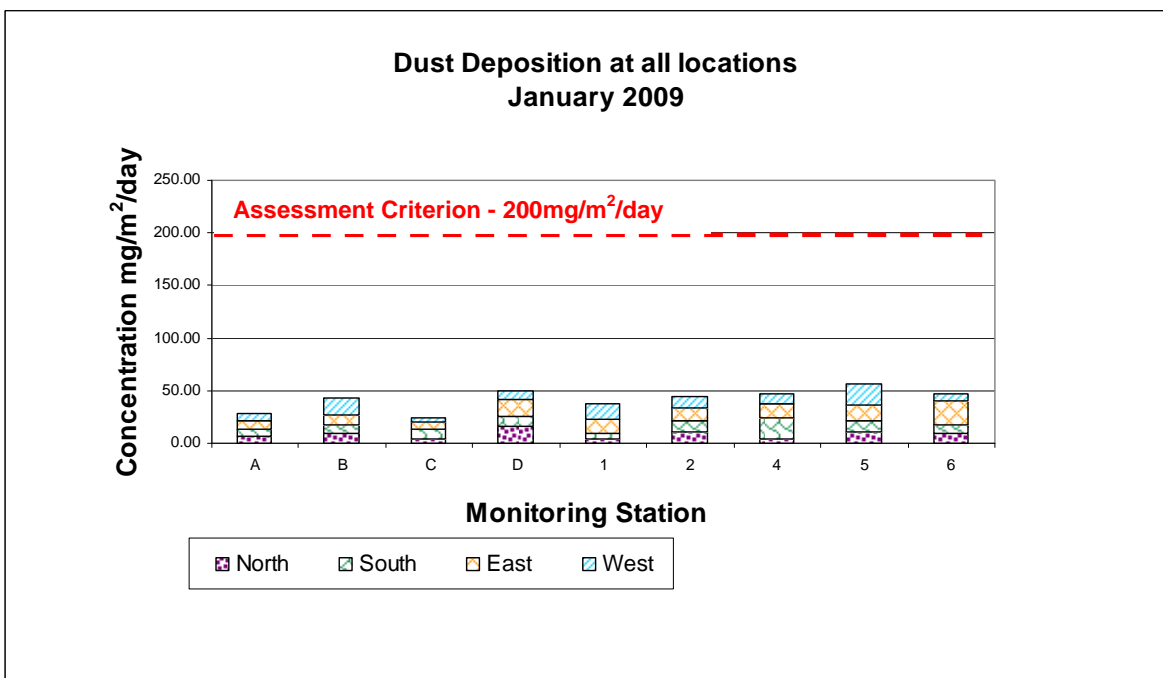
1.2.2 PM_{2.5} Levels

The assessment level of 25µg/m³ was not exceeded at on-site station B or off-site station 4 during the month, with the monthly mean result being 6.99µg/m³ for station B, and 6.92µg/m³ for station 4.



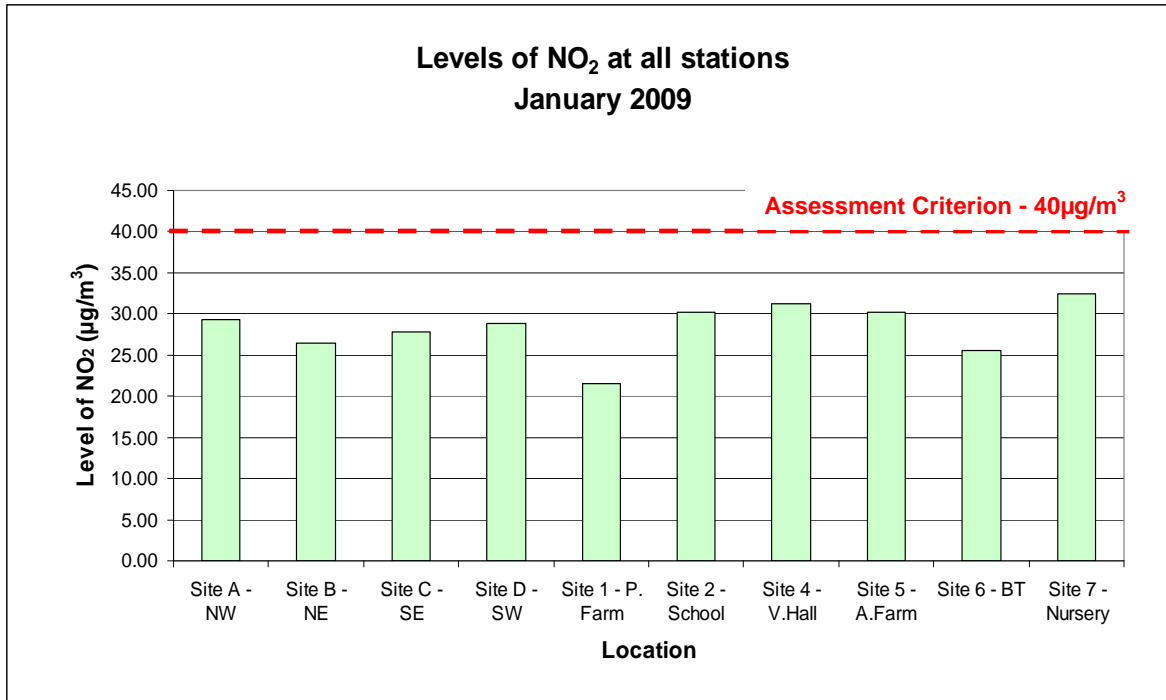
1.2.3 Deposited Dust

The assessment criterion level of 200mg/m²/day was not exceeded during the month, with the highest result being 56mg/m²/day recorded at station 5.



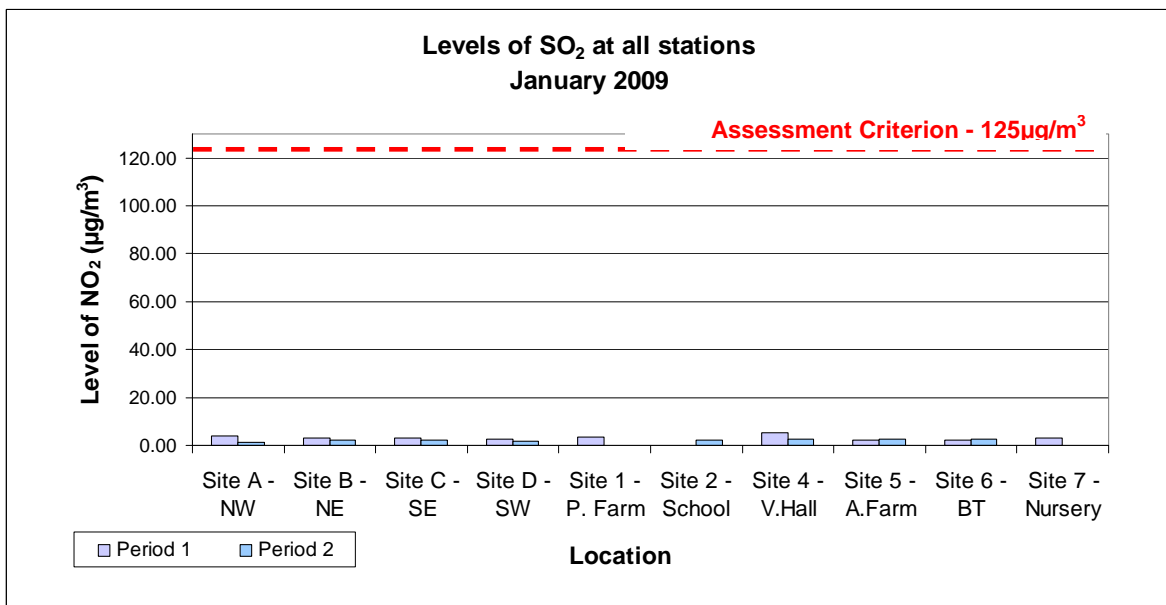
1.2.4 Nitrogen Dioxide

The assessment criteria level developed for NO₂ is 40µg/m³. No stations recorded NO₂ in exceedance of this level, with the highest NO₂ result being 32.45µg/m³, recorded at station 7.



1.2.5 Sulphur Dioxide

The assessment criteria levels developed for SO₂ is 125µg/m³. No stations recorded SO₂ in exceedance of this level, with the highest SO₂ level being 5.22µg/m³ at station 4 in the first monitoring period.



1.2.6 BTEX Compounds

The assessment criteria limits for benzene and toluene are 5µg/m³ and 1.9mg/m³ per fortnight, respectively. No stations recorded levels of benzene above the LOD during the month. The highest level of toluene was recorded at station 5 during the second period at 0.019mg/m³.

1.2.7 Metals

The only metal currently falling under the control of the UK Air Quality Strategy is lead, at a maximum concentration 0.5µg/m³ (annual mean). The highest level of lead was 0.02µg/m³,

recorded at all the on-site stations and stations 1, 2, 4, and 5 during the first monitoring period, and stations 1 and 7 during the second.

All other metals were below the assessment criteria developed for the site, and in many cases below LODs.

1.2.8 Cyanide

No National Air Quality Standard has been developed for cyanide; the assessment criteria suggested for the Avenue is a maximum concentration of $50\mu\text{g}/\text{m}^3$ per fortnight. The highest level of cyanide was recorded at $0.1\mu\text{g}/\text{m}^3$ at stations C and 1 during the first monitoring period.

1.2.9 Phenol(s)

No results for phenols were reported during the month.

1.2.10 PAHs

No results for PAHs were reported during the month.

1.2.11 Quality Control Samples

As part of the routine monitoring programme, quality control samples are submitted in the form of duplicates for all sample media and blanks for phenols, cyanide, metals, PAHs and BTEX. This is to ensure that results generated are accurate and, essentially, reliable. The outcomes for January 2009 are as follows:

Media Blanks

The analysis of media blanks indicated no problems with the contamination of media used for the collection of samples during January 2009.

Duplicates

Duplicate PM_{10} samples taken at station A correlated well with original data during the month, with duplicate results ranging between 64% and 127% of original results.

Duplicate cyanide results from station A correlated moderately well during the second period, but less well during the first, with the duplicate result being 300% of the original in the first period.

Duplicate BTEX results recorded at station 6 correlated well with original results during both monitoring periods, with the exception of toluene and total VOCs in the second period when duplicate results were 44% and 46% of the originals, respectively.

Duplicate results for metals, NO_2 and SO_2 taken from stations A and B correlated well with original results during both monitoring periods.

No results for PAHs and phenols were reported during the month.

1.3 Results from Targeted Air Monitoring

Targeted monitoring is undertaken around specific site activities considered to have the potential to liberate airborne contaminants and also to monitor ambient conditions when no works are taking place. Due to the lack of potential for site activities to generate or liberate significant amounts of contaminative materials, targeted monitoring was not required during the month.

Results from Odour Monitoring

1.4.1 Odour Diaries

Background monitoring using odour diaries was suspended at the end of October 2008 following an 18 month period of monitoring; it was considered that a sufficient level of background data have been collected during this period. The odour diary programme is scheduled to resume prior to the remediation phase.

1.4.2 Sensory Field Odour Surveys

There were no records of 'medium' odour annoyance impact or higher during the month.

1.4.3 Complaints

No odour-related complaints were received during January 2009.