

# Air Quality Report

Produced by AQDM on behalf of Harborough

## KIBWORTH A6 2021

Fully ratified by AQDM to the LAQM (TG16) standards using the AURN methodology

### Site Environment and Description

ROADSIDE: Leicester Road, Kibworth Harcourt

[Map](#)

[Photo](#)

[Dashboard](#)

### Statistical Summary Report

This 2021 report contains all the statistics required for the LAQM reporting.

### Daily Air Quality Index (DAQI)

The table below shows the duration within the bands of the Daily Air Quality Index (DAQI).

The DAQI was introduced by Defra in January 2012 and revised April 2013.

| DAQI Pollutant   | Moderate | High | Very High |
|------------------|----------|------|-----------|
| Nitrogen Dioxide | 0 hours  | 0    | 0         |

### Air Quality Exceedences of the AQS Objectives

**NO<sub>2</sub> - annual data capture was 99.8 %**

The annual mean was 32 µg m<sup>-3</sup> which did not exceed the 40 µg m<sup>-3</sup> Objective.

The maximum hourly mean was 138 µg m<sup>-3</sup> so there were no exceedences of the NO<sub>2</sub> hourly limit of 200 µg m<sup>-3</sup>. There is an annual allowance of 18 hours so the Objective was not exceeded.

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## Air Quality Statistics

| Pollutant                  | NO <sub>2</sub>        | NO                     | NO <sub>x</sub>        |
|----------------------------|------------------------|------------------------|------------------------|
| Number Very High #         | 0                      | -                      | -                      |
| Number High #              | 0                      | -                      | -                      |
| Number Moderate #          | 0                      | -                      | -                      |
| Number Low #               | 8741                   | -                      | -                      |
| Maximum 15-min mean        | 184 µg m <sup>-3</sup> | 243 µg m <sup>-3</sup> | 507 µg m <sup>-3</sup> |
| Maximum hourly mean        | 138 µg m <sup>-3</sup> | 190 µg m <sup>-3</sup> | 405 µg m <sup>-3</sup> |
| Maximum running 8-hr mean  | 103 µg m <sup>-3</sup> | 116 µg m <sup>-3</sup> | 281 µg m <sup>-3</sup> |
| Maximum running 24-hr mean | 77 µg m <sup>-3</sup>  | 72 µg m <sup>-3</sup>  | 183 µg m <sup>-3</sup> |
| Maximum daily mean         | 71 µg m <sup>-3</sup>  | 68 µg m <sup>-3</sup>  | 172 µg m <sup>-3</sup> |
| Average                    | 32 µg m <sup>-3</sup>  | 23 µg m <sup>-3</sup>  | 68 µg m <sup>-3</sup>  |
| Data capture               | 99.8 %                 | 99.8 %                 | 99.8 %                 |

# Daily Air Quality Index (DAQI) as defined by COMEAP January 2012 and revised April 2013

Mass units for the gases are at 20°C and 1013mb

NO<sub>x</sub> mass units are NO<sub>x</sub> as NO<sub>2</sub> µg m<sup>-3</sup>

## Air Quality Exceedences

| Pollutant        | Air Quality (England) Regulations 2000 & (Amendment) Regulations 2002 | Max Conc               | Number | Days | Allowed  | Exceeded |
|------------------|---|------------------------|--------|------|----------|----------|
| Nitrogen Dioxide | Annual mean > 40 µg m <sup>-3</sup>                                   | 32 µg m <sup>-3</sup>  | 0      | -    | -        | No       |
| Nitrogen Dioxide | Hourly mean > 200 µg m <sup>-3</sup>                                  | 138 µg m <sup>-3</sup> | 0      | 0    | 18 hours | No       |

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## Monthly Data Captures %

| Pollutant        | Jan  | Feb  | Mar  | Apr  | May  | Jun   | Jul  | Aug  | Sep   | Oct  | Nov  | Dec  |
|------------------|------|------|------|------|------|-------|------|------|-------|------|------|------|
| Nitrogen Dioxide | 99.9 | 99.9 | 99.9 | 99.3 | 99.9 | 100.0 | 99.7 | 99.9 | 100.0 | 99.3 | 99.9 | 99.9 |

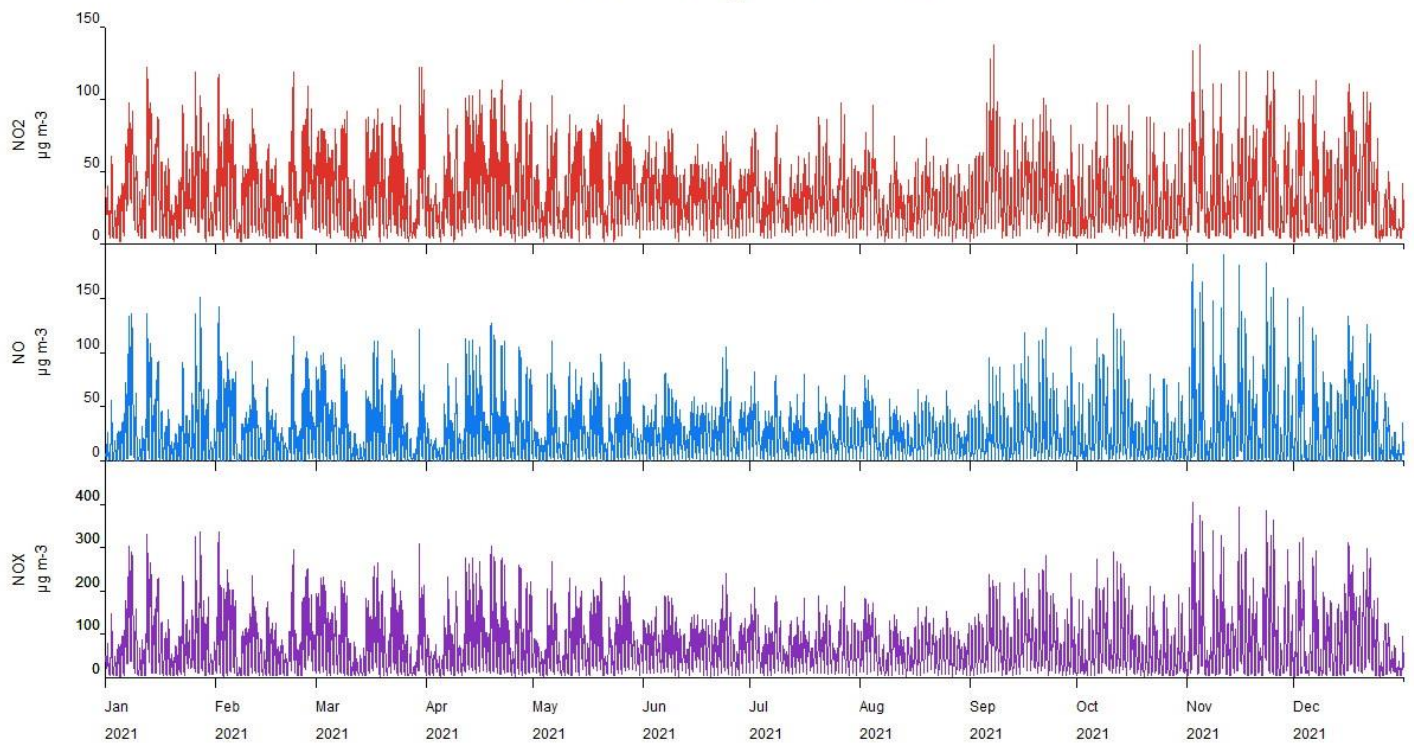
## Monthly Means

| Pollutant                             | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Nitrogen Dioxide $\mu\text{g m}^{-3}$ | 31  | 32  | 32  | 35  | 32  | 30  | 29  | 27  | 36  | 30  | 38  | 33  |

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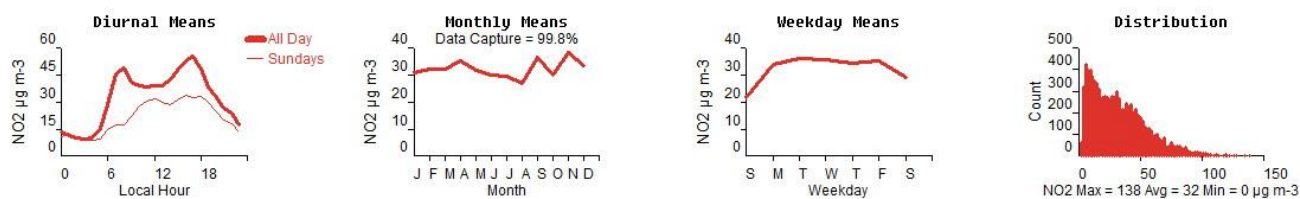
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### Hourly Means



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