

# Air Quality Report

Produced by AQDM on behalf of Lancaster

## LANCASTER DALTON SQUARE 2020

These data have been fully ratified by AQDM to the LAQM (TG16) standards

**Site Environment and Description** [Map](#) [Photo](#) [Dashboard](#)

ROADSIDE: Dalton Square, Lancaster

### Statistical Summary Report

This 2020 report contains all the statistics required for the LAQM reporting.

#### First table – Air Quality Statistics

The top four lines show the duration within the bands of the Daily Air Quality Index (DAQI). This was introduced by Defra in January 2012 and revised April 2013. The number of occasions within each band is summarised as follows.

DAQI Pollutant	Moderate	High	Very High
NO <sub>2</sub>	0 hours	0	0

#### Data Captures

The annual data captures are shown on the bottom line. These were above the 85% target.

#### Second table – Air Quality Exceedences

*NO<sub>2</sub> – annual data capture was 97.6 %*

The annual mean was 21 µg m<sup>-3</sup> which did not exceed the 40 µg m<sup>-3</sup> Objective.

The maximum hourly mean was 99 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 this 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 #	8570	-	-
Maximum 15-min mean	119 µg m <sup>-3</sup>	378 µg m <sup>-3</sup>	698 µg m <sup>-3</sup>
Maximum hourly mean	99 µg m <sup>-3</sup>	274 µg m <sup>-3</sup>	505 µg m <sup>-3</sup>
Maximum running 8-hr mean	76 µg m <sup>-3</sup>	186 µg m <sup>-3</sup>	359 µg m <sup>-3</sup>
Maximum running 24-hr mean	58 µg m <sup>-3</sup>	125 µg m <sup>-3</sup>	250 µg m <sup>-3</sup>
Maximum daily mean	54 µg m <sup>-3</sup>	120 µg m <sup>-3</sup>	237 µg m <sup>-3</sup>
Average	21 µg m <sup>-3</sup>	12 µg m <sup>-3</sup>	40 µg m <sup>-3</sup>
Data capture	97.6 %	97.6 %	97.6 %

# 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>	21 µg m <sup>-3</sup>	0	-	-	No
Nitrogen Dioxide	Hourly mean > 200 µg m <sup>-3</sup>	99 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	100.0	100.0	100.0	100.0	100.0	100.0	71.5	100.0	100.0	100.0	99.9	99.9

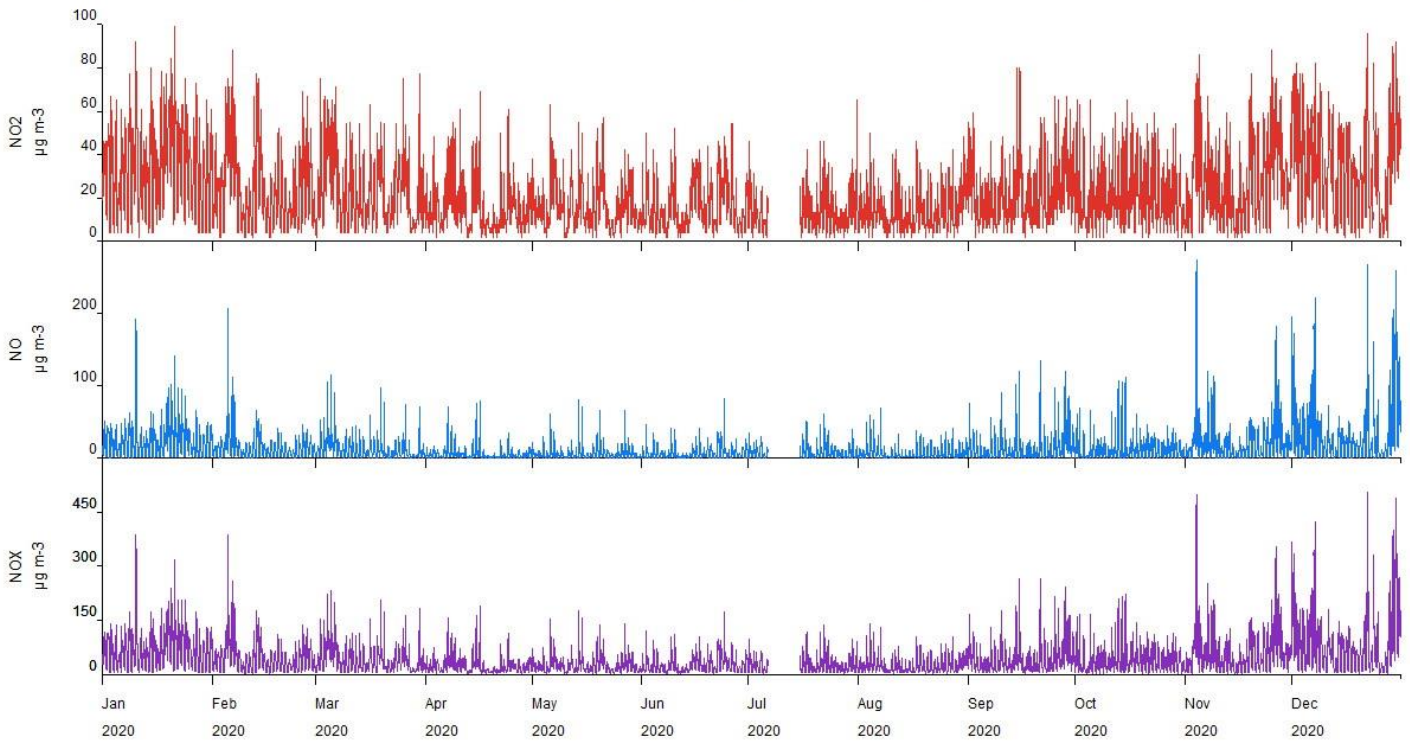
### Monthly Means

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nitrogen Dioxide $\mu\text{g m}^{-3}$	33	24	23	14	15	16	13	13	20	18	25	33

# Air Quality Report

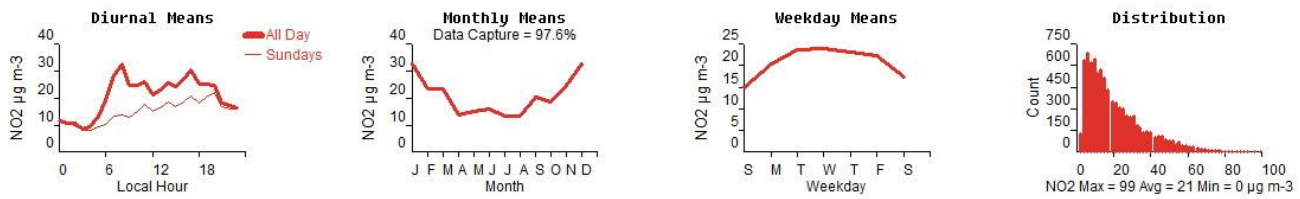
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### Hourly Means



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