

Air Quality Report

Produced by AQDM on behalf of Bradford

BRADFORD MANNIGHAM LANE 2018

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

Site Environment and Description

KERBSIDE: Mannigham Lane, Bradford

Statistical Summary Report

This 2018 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 on January 2012 and revised April 2013. The number of occasions within each band is summarised as follows.

DAQI Pollutant	Moderate	High	Very High
NO ₂	0 hours	0	0

Data Captures

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

High percentiles are included where the annual data capture was less than 85%.

Second table – Air Quality Exceedences

NO₂ – annual data capture was 40.2 %

The annual mean was 53 $\mu\text{g m}^{-3}$ which **exceeded** the 40 $\mu\text{g m}^{-3}$ Objective.

Note the low annual data capture.

The maximum hourly mean was 153 $\mu\text{g m}^{-3}$ so there were no exceedences of the NO₂ hourly limit of 200 $\mu\text{g m}^{-3}$. There is an annual allowance of 18 hours so this Objective was not exceeded.

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Air Quality Statistics

Pollutant	NO ₂	NO	NO _x
Number Very High #	0	-	-
Number High #	0	-	-
Number Moderate #	0	-	-
Number Low #	3523	-	-
Maximum 15-min mean	176 µg m ⁻³	542 µg m ⁻³	972 µg m ⁻³
Maximum hourly mean	153 µg m ⁻³	486 µg m ⁻³	887 µg m ⁻³
Maximum running 8-hr mean	128 µg m ⁻³	320 µg m ⁻³	608 µg m ⁻³
Maximum running 24-hr mean	110 µg m ⁻³	212 µg m ⁻³	424 µg m ⁻³
Maximum daily mean	104 µg m ⁻³	185 µg m ⁻³	380 µg m ⁻³
99.8 th percentile of hourly means [†]	134 µg m ⁻³	-	-
Average	53 µg m ⁻³	38 µg m ⁻³	112 µg m ⁻³
Data capture	40.2 %	40.2 %	40.2 %

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

† Percentile required for annual data capture < 85%

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

NO_x mass units are NO_x as NO₂ µg m⁻³

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 ⁻³	53 µg m ⁻³	1	-	-	Yes
Nitrogen Dioxide	Hourly mean > 200 µg m ⁻³	153 µg m ⁻³	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	0.0	0.0	0.0	0.0	12.5	31.3	12.8	24.5	100.0	100.0	100.0	100.0

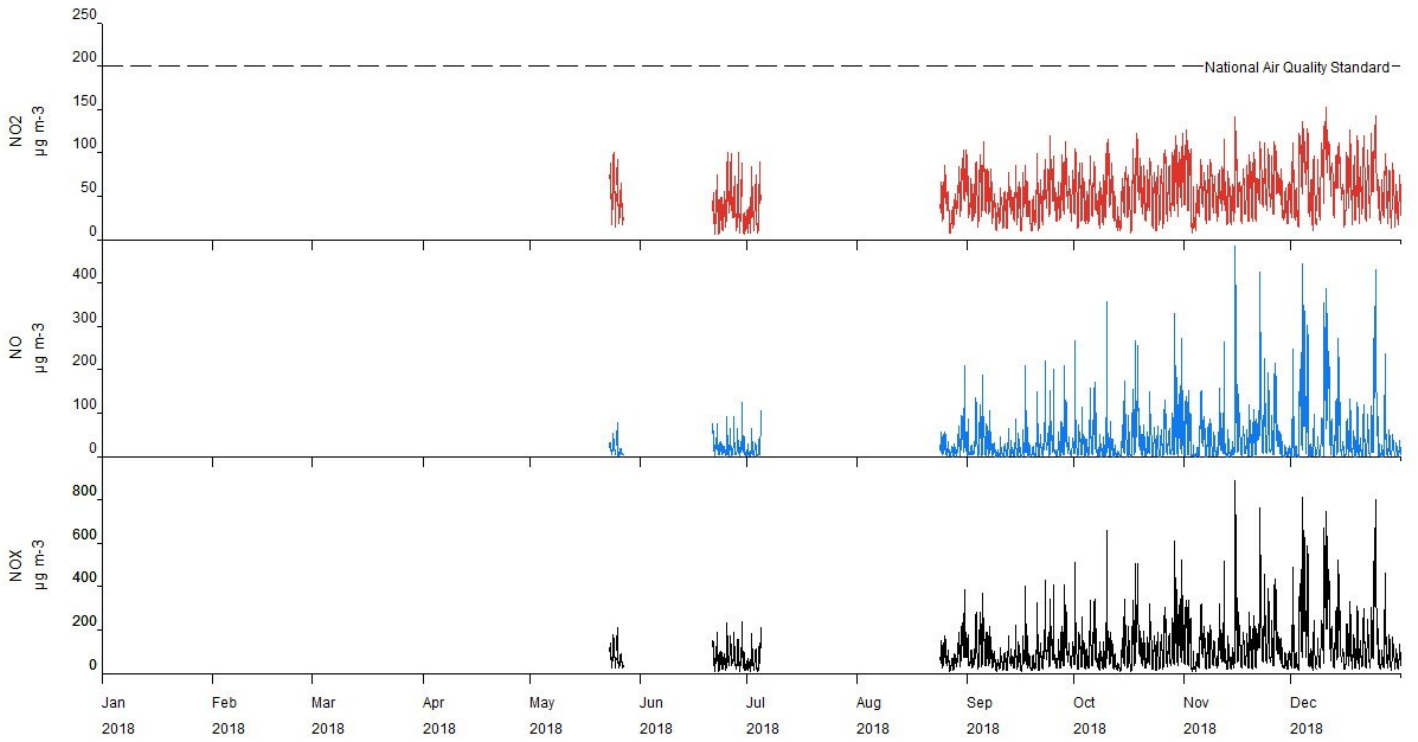
Monthly Means

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nitrogen Dioxide $\mu\text{g m}^{-3}$	-	-	-	-	52	40	37	48	48	54	55	64

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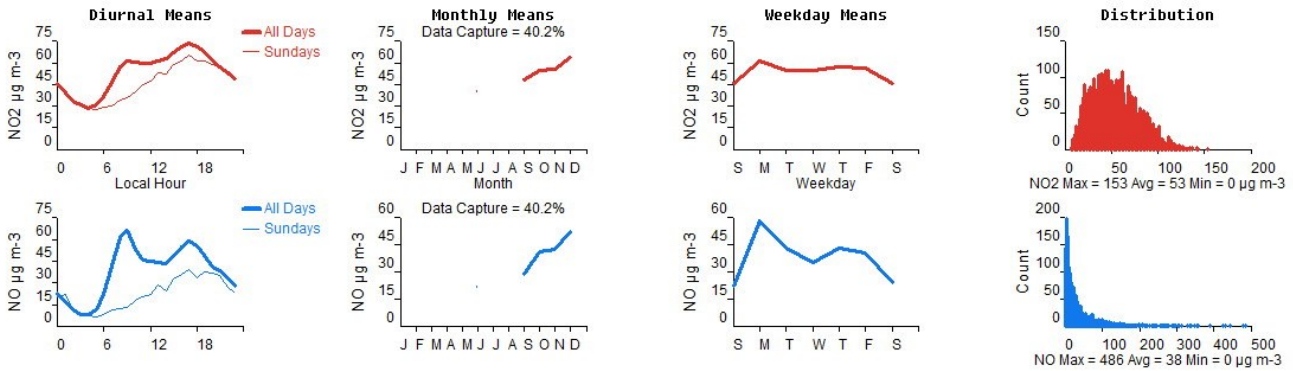
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Hourly Means



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