

Air Quality Report

Produced by AQDM on behalf of Lancaster

LANCASTER DALTON SQUARE 2021

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

Site Environment and Description

ROADSIDE: Dalton Square, Lancaster

[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

NO₂ - annual data capture was 99.9 %

The annual mean was 26 $\mu\text{g m}^{-3}$ which did not exceed the 40 $\mu\text{g m}^{-3}$ Objective.

The maximum hourly mean was 105 $\mu\text{g m}^{-3}$ 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 the 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 #	8755	-	-
Maximum 15-min mean	113 µg m ⁻³	419 µg m ⁻³	740 µg m ⁻³
Maximum hourly mean	105 µg m ⁻³	340 µg m ⁻³	614 µg m ⁻³
Maximum running 8-hr mean	78 µg m ⁻³	165 µg m ⁻³	322 µg m ⁻³
Maximum running 24-hr mean	62 µg m ⁻³	103 µg m ⁻³	211 µg m ⁻³
Maximum daily mean	54 µg m ⁻³	98 µg m ⁻³	203 µg m ⁻³
Average	26 µg m ⁻³	15 µg m ⁻³	50 µg m ⁻³
Data capture	99.9 %	99.9 %	99.9 %

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_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	26 µg m ⁻³	0	-	-	No
Nitrogen Dioxide	Hourly mean > 200 µg m ⁻³	105 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	99.9	100.0	99.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0

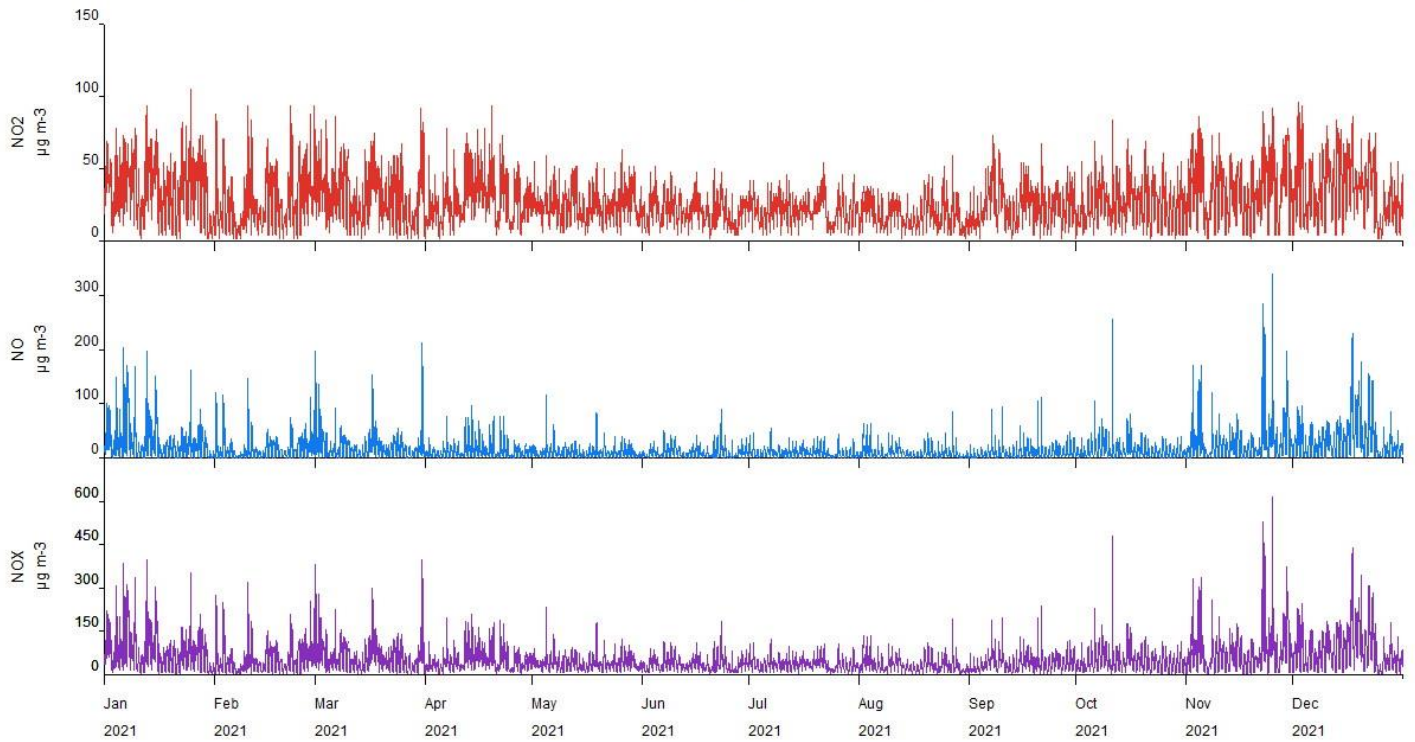
Monthly Means

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nitrogen Dioxide $\mu\text{g m}^{-3}$	34	24	28	27	24	19	21	18	24	25	34	34

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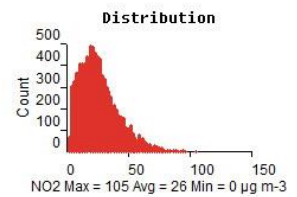
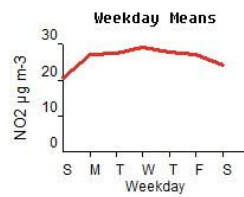
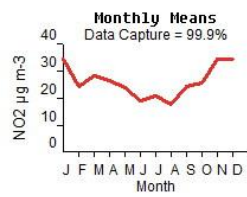
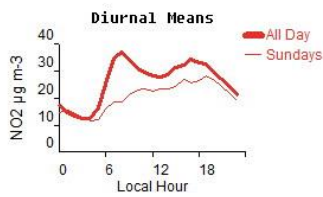
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Hourly Means



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