

Air Quality Report

Produced by AQDM on behalf of Herefordshire

HEREFORD VICTORIA STREET 2018

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

Site Environment and Description

ROADSIDE: Corner of Victoria Street and King Street

Statistical Summary Report

This 2018 report contains all the statistics required for the LAQM reporting.

First table – Air Quality Statistics

The gravimetric PM₁₀ (BAM / 1.21) is shown in the 2nd column while the uncorrected BAM PM₁₀ is in the 3rd.

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
Gravimetric PM ₁₀	2 days	0	0
NO ₂	0 hours	0	0

Gravimetric PM₁₀ was Moderate on 3rd Mar and 28th May with a daily mean reaching 66 µg m⁻³.

Data Captures

The annual data captures are shown on the bottom line. These were above the 85% target for NO₂ and below or PM₁₀.

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

Second table – Air Quality Exceedences

Gravimetric PM₁₀ – annual data capture was 79.4 %

The maximum daily mean was 66 µg m⁻³ so the daily mean limit value of 50 µg m⁻³ was exceeded on 2 days. The annual allowance is 35 days so this Objective was not exceeded.

The annual mean was 24 µg m⁻³ which did not exceed the 40 µg m⁻³ Objective.

NO₂ – annual data capture was 95.8 %

The annual mean was 40 µg m⁻³ which did not exceed the 40 µg m⁻³ Objective.

The maximum hourly mean was 157 µg m⁻³ so there were no exceedences of the NO₂ hourly limit of 200 µg m⁻³. There is an annual allowance of 18 hours so this Objective was not exceeded.

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Air Quality Statistics

Pollutant	PM ₁₀ ⁺	PM ₁₀ [*]	NO ₂	NO	NO _x
Number Very High #	0	-	0	-	-
Number High #	0	-	0	-	-
Number Moderate #	2	-	0	-	-
Number Low #	275	-	8392	-	-
Maximum 15-min mean	-	-	180 µg m ⁻³	741 µg m ⁻³	1308 µg m ⁻³
Maximum hourly mean	204 µg m ⁻³	245 µg m ⁻³	157 µg m ⁻³	700 µg m ⁻³	1230 µg m ⁻³
Maximum running 8-hr mean	76 µg m ⁻³	91 µg m ⁻³	108 µg m ⁻³	356 µg m ⁻³	652 µg m ⁻³
Maximum running 24-hr mean	67 µg m ⁻³	80 µg m ⁻³	79 µg m ⁻³	210 µg m ⁻³	401 µg m ⁻³
Maximum daily mean	66 µg m ⁻³	80 µg m ⁻³	78 µg m ⁻³	210 µg m ⁻³	400 µg m ⁻³
90.4 th percentile of daily means [†]	37 µg m ⁻³	-	-	-	-
90 th percentile of daily means [†]	37 µg m ⁻³	-	-	-	-
98.1 st percentile of daily means [†]	46 µg m ⁻³	-	-	-	-
Average	24 µg m ⁻³	29 µg m ⁻³	40 µg m ⁻³	42 µg m ⁻³	105 µg m ⁻³
Data capture	79.4 %	79.4 %	95.8 %	95.8 %	95.8 %

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

† Percentile required for annual data capture < 85%

+ PM₁₀ as measured by a BAM using a gravimetric factor of 0.833 for Indicative Gravimetric Equivalent

* PM₁₀ as measured by a BAM

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
PM ₁₀ Particulate Matter (Gravimetric)	Daily mean > 50 µg m ⁻³	66 µg m ⁻³	2	2	35 days	No
PM ₁₀ Particulate Matter (Gravimetric)	Annual mean > 40 µg m ⁻³	24 µg m ⁻³	0	-	-	No
Nitrogen Dioxide	Annual mean > 40 µg m ⁻³	40 µg m ⁻³	0	-	-	No
Nitrogen Dioxide	Hourly mean > 200 µg m ⁻³	157 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
PM ₁₀	91.4	93.8	83.6	46.0	95.7	86.4	99.2	92.6	69.9	34.3	63.3	96.6
Nitrogen Dioxide	99.3	99.1	99.1	98.8	99.6	97.8	97.3	99.2	87.9	87.4	84.4	99.6

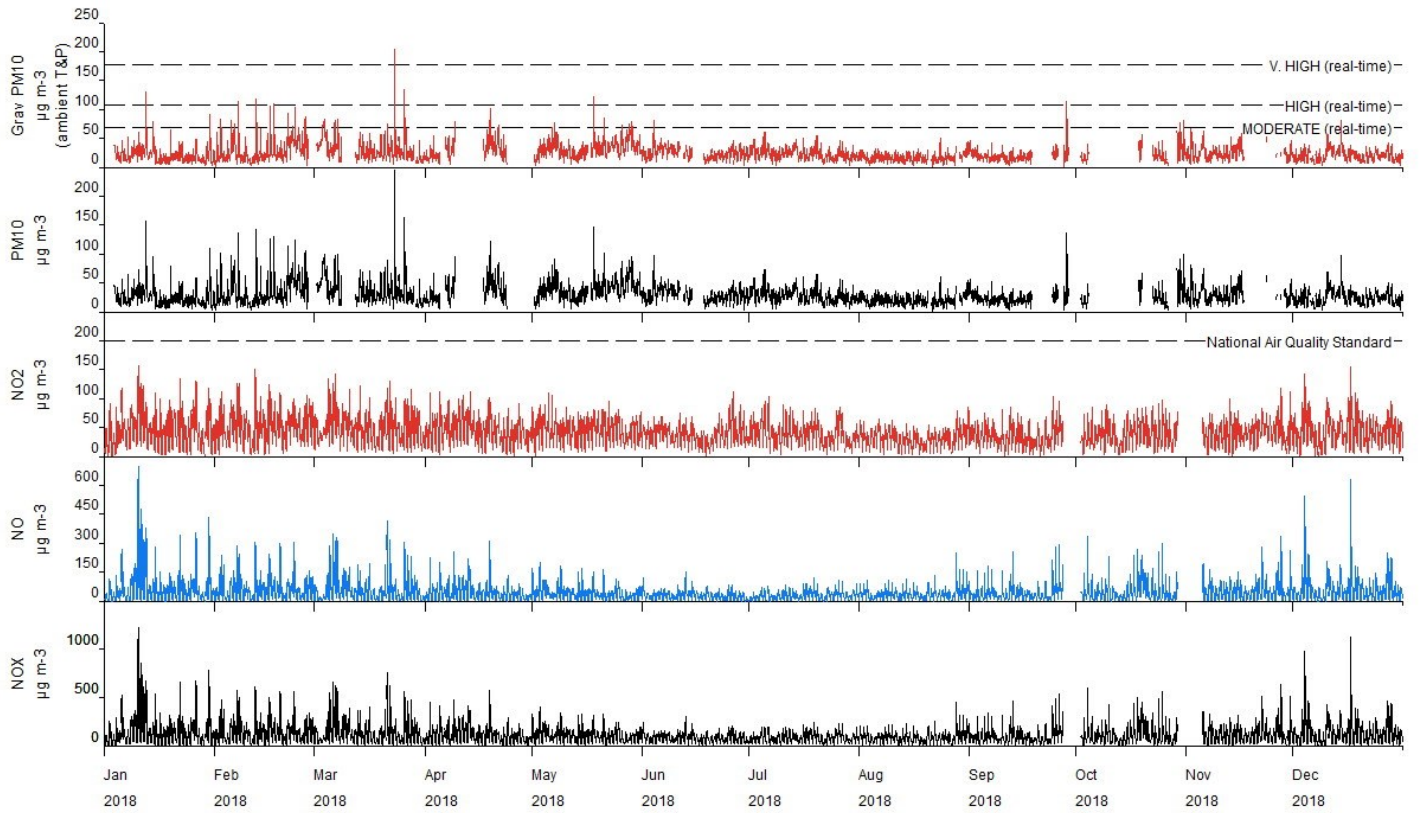
Monthly Means

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PM ₁₀ µg m ⁻³	21	29	30	30	32	24	23	17	19	24	24	20
Nitrogen Dioxide µg m ⁻³	43	49	46	43	43	36	38	30	33	39	41	42

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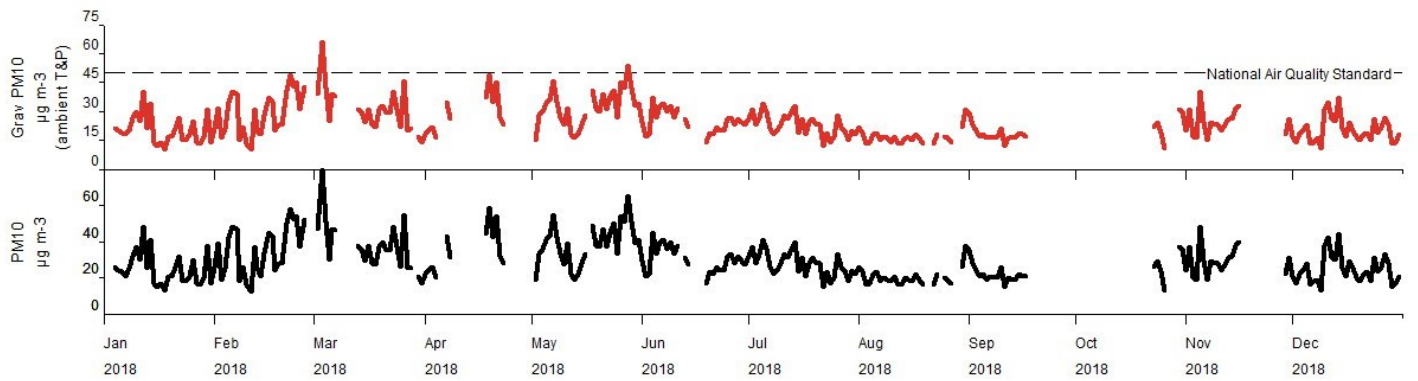
Hourly Means



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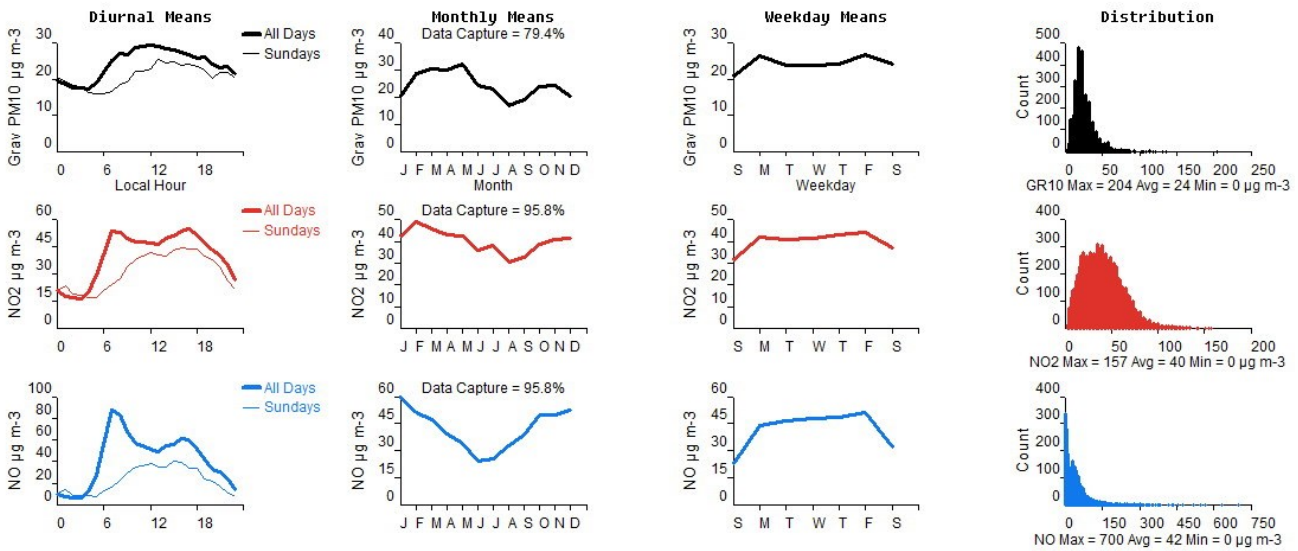
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Daily Means



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