

Produced by AQDM on behalf of Herefordshire HEREFORD VICTORIA STREET 2024

Fully ratified by AQDM to the LAQM TG22 standards using the AURN methodology

Site Environment and Description

Corner of Victoria Street and King Street

ROADSIDE Map Photo

Statistical Summary Report

This 2024 report contains all the statistics required for the LAQM reporting.

Gravimetric PM₁₀

Smart Heated BAM instrument PM₁₀ / 1.035

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	1 hour	0	0
PM ₁₀ Particulate Matter	3 days	0	0
PM _{2.5} Particulate Matter	0 days	0	0

Nitrogen Dioxide was Moderate on 2nd May with an hourly mean reaching 213.8 μg m⁻³. Gravimetric PM₁₀ was Moderate on 15th 18th Jan, 6th Sept with a daily mean reaching 59.9 μg m⁻³.

Air Quality Exceedances of the AQS Objectives

NO₂ - annual data capture was 99.5 %

The annual mean was 28.9 µg m⁻³ which did not exceed the 40 µg m⁻³ Objective.

The maximum hourly mean was 213.8 μg m⁻³ so there was 1 exceedance of the NO₂ hourly limit of 200 μg m⁻³. There is an annual allowance of 18 hours so the Objective was not exceeded.

Gravimetric PM₁₀ - annual data capture was 99.8 %

The annual mean was 18.0 μg m⁻³ which did not exceed the 40 μg m⁻³ Objective.

The maximum daily mean was 59.9 μ g m⁻³ so there were 3 exceedances of the PM₁₀ daily limit of 50 μ g m⁻³. There is an annual allowance of 35 days so the Objective was not exceeded.

Gravimetric PM_{2.5} - annual data capture was 99.8 %

The annual mean was 8.6 µg m⁻³ which did not exceed the 20 µg m⁻³ Objective.





HEREFORD VICTORIA STREET 2024

Air Quality Statistics

Pollutant	NO ₂	NO	NO _X	Grav PM₁₀⁺	Grav PM _{2.5} ~
Number Very High #	0	-	-	0	0
Number High #	0	-	-	0	0
Number Moderate #	1	-	-	3	0
Number Low #	8740	-	-	363	366
Maximum 15-min mean	326.8 µg m ⁻³	606.9 µg m ⁻³	1058.4 µg m ⁻³	- μg m ⁻³	- μg m ⁻³
Maximum hourly mean	213.8 µg m ⁻³	545.6 µg m ⁻³	948.8 µg m ⁻³	233.8 µg m ⁻³	48.0 µg m ⁻³
Maximum running 8-hr mean	113.0 µg m ⁻³	252.4 μg m ⁻³	463.6 µg m ⁻³	145.3 µg m ⁻³	39.8 µg m ⁻³
Maximum running 24-hr mean	61.9 µg m ⁻³	143.3 µg m ⁻³	281.6 µg m ⁻³	63.1 µg m ⁻³	30.9 μg m ⁻³
Maximum daily mean	58.2 μg m ⁻³	120.0 µg m ⁻³	242.2 μg m ⁻³	59.9 μg m ⁻³	30.6 µg m ⁻³
Average	28.9 µg m ⁻³	28.5 µg m ⁻³	72.6 µg m ⁻³	18.0 µg m ⁻³	8.6 µg m ⁻³
Data capture	99.5 %	99.5 %	99.5 %	99.8 %	99.8 %

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

NO_X mass units are NO_X as NO₂ µg m⁻³

Air Quality Exceedances

Pollutant	Air Quality (England) Regulations 2000 & (Amendment) Regulations 2002	Max Conc	Number	Days	Allowed	Exceeded
Nitrogen Dioxide	Annual mean > 40 μg m ⁻³	28.9 µg m ⁻³	0	ı	ı	No
Nitrogen Dioxide	Hourly mean > 200 µg m ⁻³	213.8 µg m ⁻³	1	1	18 hours	No
PM ₁₀ Particulate Matter (Gravimetric)	Annual mean > 40 μg m ⁻³	18.0 μg m ⁻³	0	ı	-	No
PM ₁₀ Particulate Matter (Gravimetric)	Daily mean > 50 μg m ⁻³	59.9 μg m ⁻³	3	3	35 days	No
PM _{2.5} Particulate Matter (Gravimetric)	Annual mean > 20 μg m ⁻³	8.6 µg m ⁻³	0	-	-	No



⁺ Gravimetric PM₁₀ as measured by a Smart Heated BAM instrument using 0.96618 gravimetric factor

 $^{^{\}sim}$ Gravimetric PM_{2.5} as measured by a Smart Heated BAM instrument using 1 gravimetric factor Mass units for the gases are at 20'C and 1013mb



HEREFORD VICTORIA STREET 2024

Monthly Data Captures %

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nitrogen Dioxide	99.6	99.6	99.5	99.6	98.9	99.6	99.6	99.5	99.6	99.6	99.6	99.6
Grav PM ₁₀	99.9	99.7	99.9	99.7	99.2	99.9	99.9	99.9	100.0	99.6	99.7	99.9
Grav PM _{2.5}	99.9	99.9	99.9	99.9	99.3	99.4	99.9	99.9	100.0	99.9	99.9	99.9

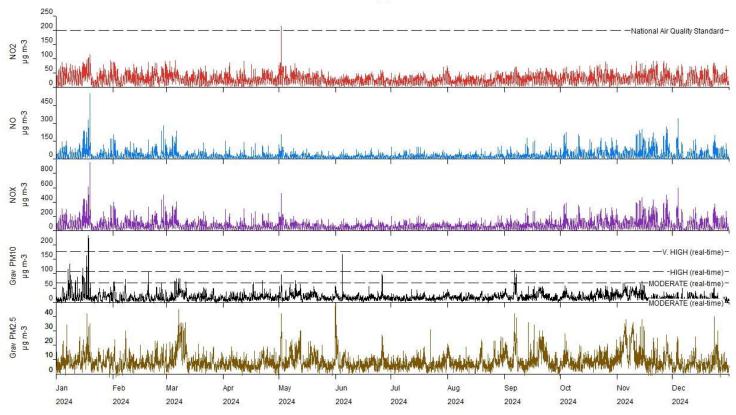
Monthly Means

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nitrogen Dioxide µg m ⁻³	34.4	32.3	29.4	26.0	30.7	22.4	23.8	22.7	29.3	32.1	34.4	29.5
Grav PM ₁₀ µg m ⁻³	22.5	15.1	18.4	16.3	20.2	16.2	14.3	17.1	21.5	20.4	21.6	12.2
Grav PM _{2.5} µg m ⁻³	8.8	7.7	10.0	6.8	9.5	7.4	6.7	7.9	10.3	8.3	12.4	6.8





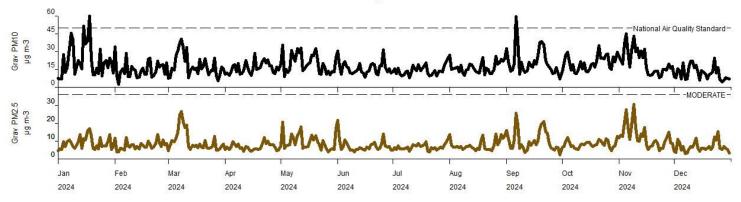
Hourly Means







Daily Means





Air Quality Report

Hereford Victoria Street during 2024 Nitrogen Dioxide threshold 40 μg m⁻³

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Air Quality Report

Hereford Victoria Street during 2024 PM₁₀ Particulate Matter threshold 50 ug m⁻³

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PM₁₀ Particulate Matter Daily Averages Maximum was 59.9 μg m⁻³ on 18th January 2024



Air Quality Report

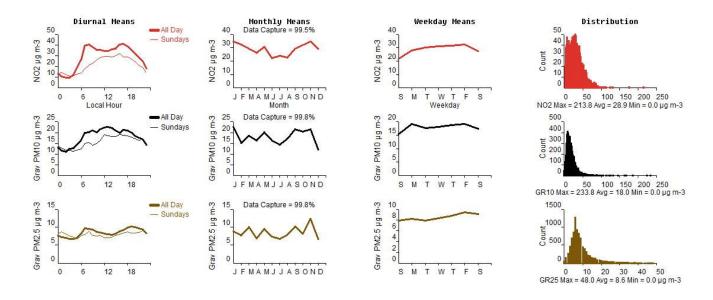
Hereford Victoria Street during 2024

PM_{2.5} Particulate Matter threshold 10 μg m⁻³

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HEREFORD VICTORIA STREET 2024



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