

Air Quality and Dust Monitoring Monthly Report – February 2025

North Warwickshire Borough Council



Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

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Monthly Summary

- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality and dust monitoring undertaken in North Warwickshire Borough Council (NWBC) during February 2025.
- 1.1.2 Figures 1 and Figure 2 in Appendix A present the current worksites together with the dust monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights: the applicable standards and guidance, as well as the air quality and dust monitoring methodologies to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current worksites, as presented in Figure 1 and Figure 2, include:

Sublot 6BS

Gilson Embankment

- Reinforced concrete works.
- Movement of plant for earthworks.
- Plant used: Concrete wagons, 2x Mobile Elevating Work Platforms (MEWPs), Articulated Dump Truck (ADT).

Attleboro Lane Overbridge

- Road construction.
- Earthworks.
- Rebar installation.
- Concreting.
- Utilities.
- Plant used: 1x Piling rig, excavators, roller and concrete wagons.

Sublot 7

Faraday Avenue Embankment and Underbridge

- Access for subcontractor borehole monitoring – not construction works.

Marston Box

- Storage and deliveries of stone.
- Materials lifted to and from Marston Box Deck.

- Fixing of rebar and shuttering.
- Stone material on conveyor for Marston surcharge.
- Crane mobilised and concrete pours.
- Works and material storage near Mullensgrove Farm.
- Demobbing of some equipment off site.
- Road sweeper in use.
- Plant used: 1x concrete pump, 1x 21 tonne excavator, 1x 135 tonne roller, 1x conveyor, 1x 5 tonne excavator deck, 1x tracked dumper, 1x 50 tonne crane, 1x 50 tonne rescue crane, 1x 25 tonne excavator with breaker attachment, 1x forklift, and 1x MEWP.

Sublot 6NC

- No works occurred in February 2025.

Sublot 5N

Chattle Hill Box Structure

- Reinforced concrete works.
- Rebar fixing.
- Concrete works.
- Lifting operations for precast structures.
- Earthwork movements.

- 1.1.5 Seven (7) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor presented in Figure 3. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.
- 1.1.8 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 3.
- 1.1.9 Data capture was below 90% for multiple monitors due to:

- Monitor AFE001 – A battery refresh was done on 19th February 2025. After this site visit, the power supply issues were resolved.
- Monitor CHSB001 – A site visit is to be scheduled to resolve the power supply issues.
- Monitor FAEU001 – A battery refresh is scheduled for 7th March 2025.
- Monitor GLD001 – A battery refresh and calibration were done on 27th February 2025.

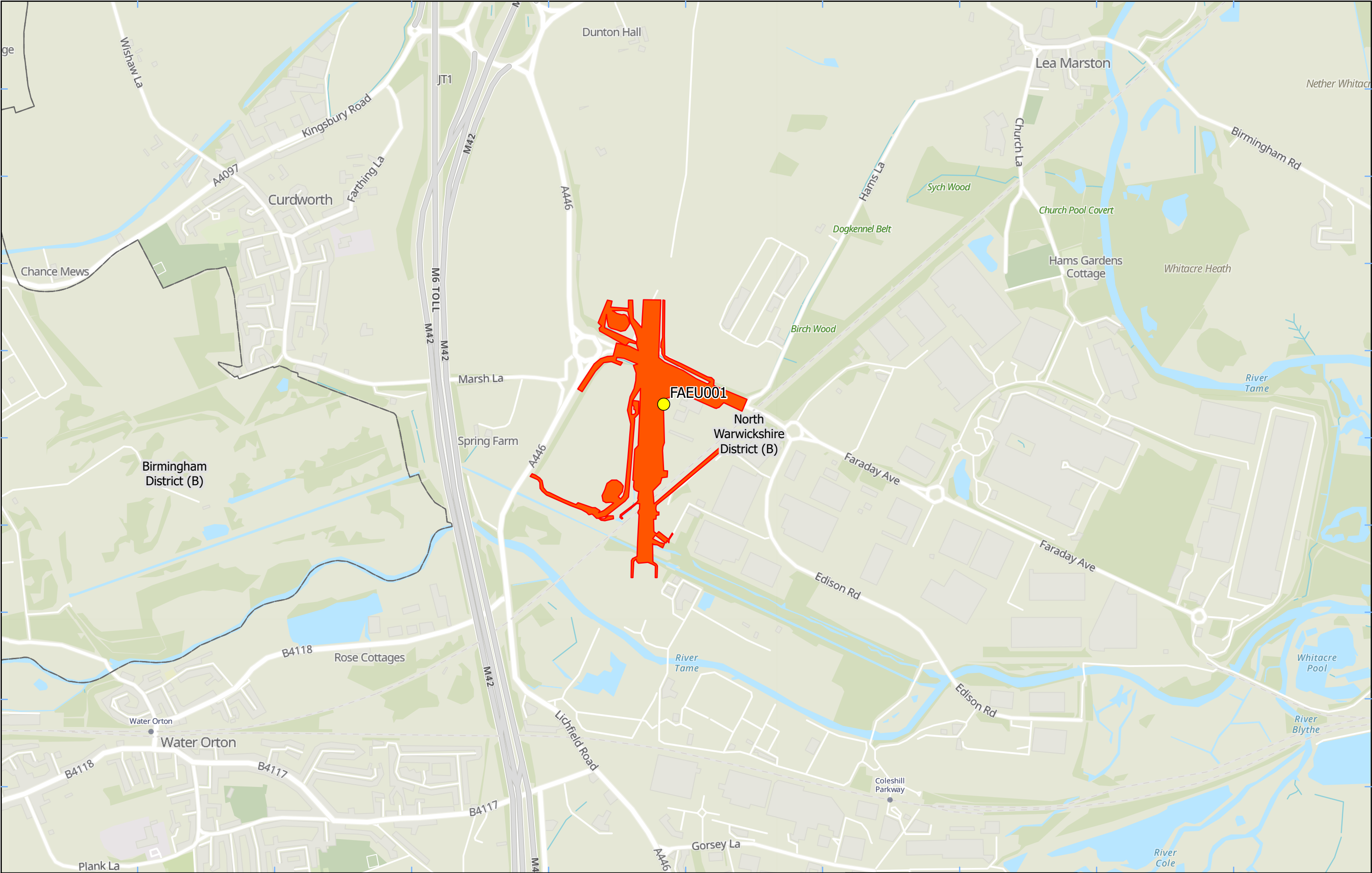
1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during February 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46093-C	N/A	Generator noise at night.	Noise barriers were installed immediately and a new stage 5 quieter, low-emission generator is to be used for further works, only to be used for 4 hours per 24hr working period. All monitors to be inspected regularly, resident has been updated.

Appendix A – Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within NWBC



Legend

- Dust Monitor
- Worksite
- District Borough Unitary Boundaries

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Contains data from OS Zoomstack

Map Number

Map Name

**Worksite and Monitoring Locations
In NWBC (Sheet 1)**

North Warwickshire Borough

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Scale at A3: 1:11,000

Metres

Date: 19/12/24

Appendix B – Dust Monitoring Results

Table 2: Dust Monitoring Locations and Results

Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
BRD001	419279, 288315	New Cottage, Birmingham Road, Coleshill	L	Yes	No	23.5	1.1	94.6	0	99.7
FAEU001	419166, 292265	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	L	Yes	No	16.8	0.0	58.8	0	87.7
GLD001	418724, 289497	Gilson Drive	L	Yes	No	5.9	0.1	41.5	0	81.3
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	5.4	0.0	20.2	0	99.1
AFE001	417533, 290153	Attleboro Farm, Attleboro Lane	L	Yes	No	13.4	0.3	44.8	0	75.5
GE002	418977, 290134	Lovegrove Cottage, Gilson Road	M	Yes	No	27.3	1.4	217.8	1	100.0
CHBS001	419157, 290750	6 Gorsey Way, Lichfield Road	L	Yes	No	13.2	0.2	78.3	0	66.8

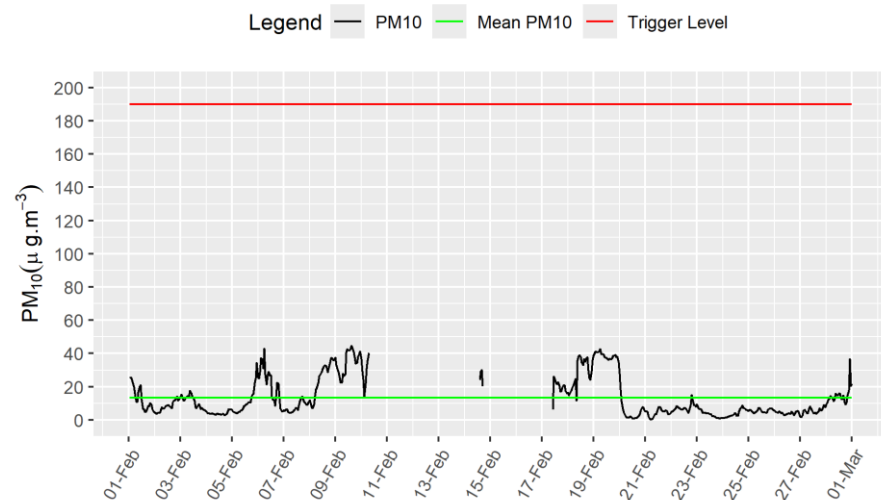
Table 3: Summary of exceedances during period (February 2025)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
GE002	06/02/2025 06:01 - 07:00; 217.8 $\mu\text{g m}^{-3}$	There were no relevant site activities occurring near the monitor at the time of the exceedance, so the exceedance is not considered to be associated with current HS2 construction works.	N/A

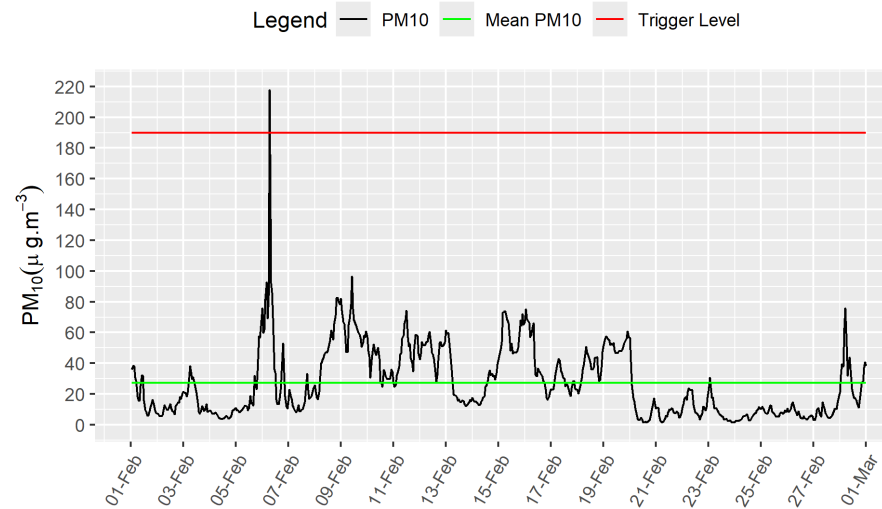
Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



AFE001



GE002



CHBS001

