

Air Quality and Dust Monitoring Monthly Report – May 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 May 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

- No works occurred in May 2025.

Attleboro Lane Overbridge

- Steel fixing and concrete pours (including concrete delivery).
- Piling works from SB3 (Joint venture between Balfour Beatty Vinci and Bachy Soletache) (including concrete delivery).
- Attleboro Lane Overbridge is complete and was opened to the public in May 2025.

Sublot 7

Faraday Avenue Embankment and Underbridge

- Prestressing (PRST) Platform installation (Second) and removal.
- Threading & Tensioning (Second part – 6 Tendoms).
- Self-Propelled Modular Transporter (SMPT) arrival.
- Push Pull system adjustment.
- Wedge Segment Internal and External Formwork Installation.
- Wedge Segment Top and Bottom Rebar Installation.
- Wedge Concrete Pouring.
- Wedge formwork removal.
- Hydraulic Jacks Implementation for Temporary Post-Tensioning (TPT) bars.
- Swivel Crane Movement.

- Segment Gluing.
- Segment Positioning.
- TPT Bars Tensioning.
- Segment Lifting + Gluing + Segment Installation + TPT Tensioning and jack pressured.
- Internal Top Prestressing Platform (ITP) Platform Removal.
- SMPT Arrival & Segment Lifting.
- Grouting of Support Shims.
- SMPT Arrival & Yoke Beam Connection.
- Mast Movement.
- Rear & Front Stay Cable Tensioning.
- Swivel Crane Movement.

Marston Box

- Finishing works on the deck and abutments.
- Subcontractor demobilisation from site.

Sublot 6NC

Marsh Lane Embankment

- Dig and replace exercises.
- Water Orton Inlet Culvert installation.
- Haulage of materials (both earthworks and from Tunnel Boring Machine (TBM) operations).

Sublot 5N

Chattle Hill Box Structure

- Rotary piling for Phase 2 piles.
- Site maintenance and traffic management.
- BBV Enabling works.

- 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.

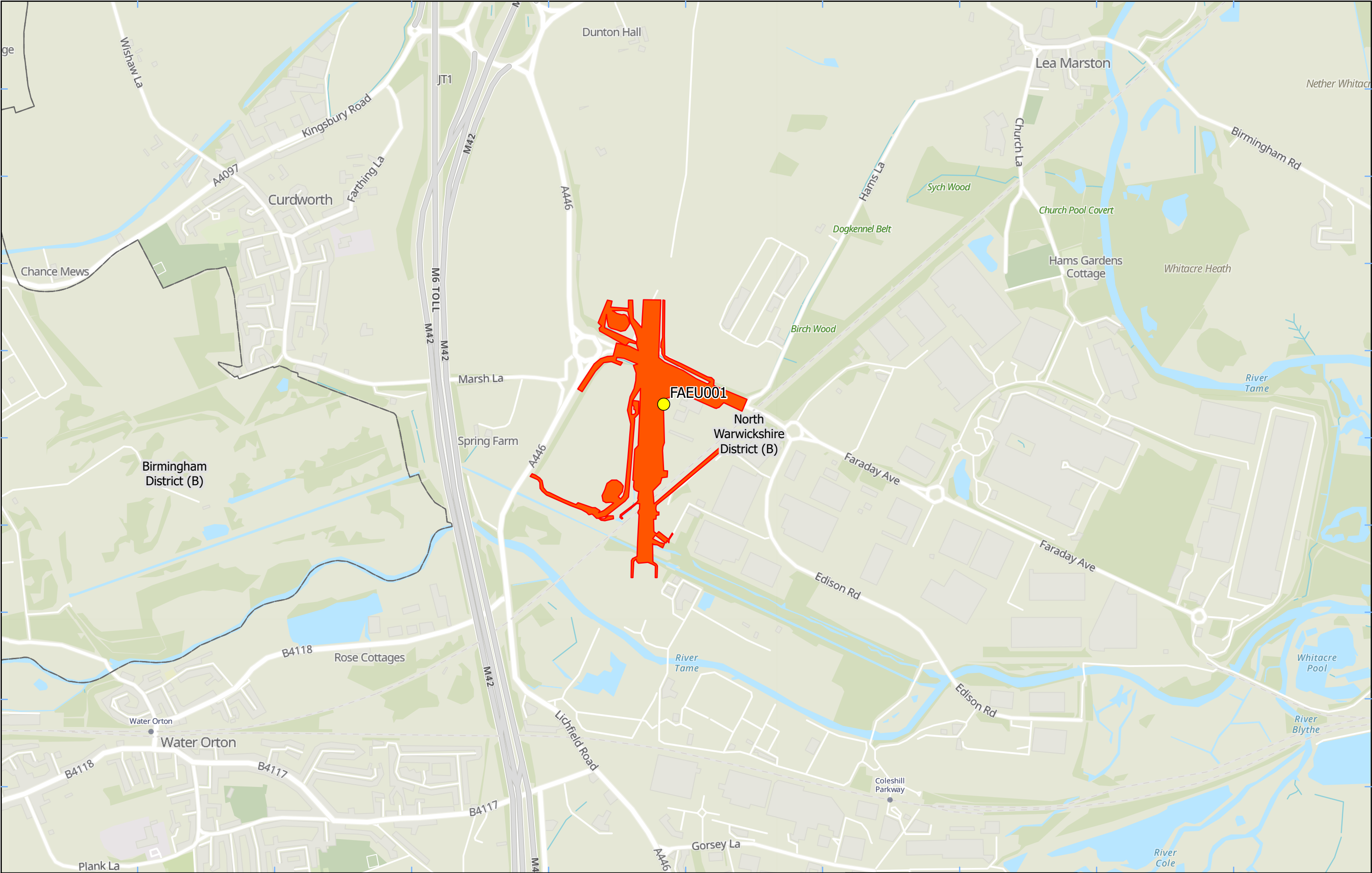
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (May 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor GLD001 – A monitor swap out is scheduled for 12th June 2025.
 - Monitor FAEU001 – A field calibration was done on 20th May 2025. A lab calibration monitor swap out is scheduled for 10th June 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 May 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46382-C	N/A	Increased amount of dust in the area.	All dust mitigation measures are in place. All monitors checked, no exceedances were breached. Resident has been updated and advised Saharan dust has been visible across the UK and may have contributed to the noticeable dust.
HS2-25-46393-C	N/A	Increased amount of dust in the area.	All dust mitigation measures are in place. All monitors checked, no exceedances were breached. Resident has been updated and advised Saharan dust has been visible across the UK and may have contributed to the noticeable dust.
HS2-25-121275-E-C	N/A	Increased amount of dust in the area.	All dust mitigation measures are in place. All monitors checked, no exceedances were breached. Resident has been updated and advised Saharan dust has been visible across the UK and may have contributed to the noticeable dust.
HS2-25-46407-C	N/A	Increased dust in the area	All dust mitigation measures are in place. All monitors checked, no exceedances were breached. Resident has been updated and advised Saharan dust has been visible across the UK and may have contributed to the noticeable dust.

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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Map Number

Map Name

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

North Warwickshire Borough

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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	419262, 288328	New Cottage, Birmingham Road, Coleshill	L	Yes	No	9.6	0.6	58.5	0	100.0
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	L	Yes	No	-	-	-	0	-
GLD001	418807, 289570	Gilson Drive	L	Yes	No	12.3	0.9	93.9	0	33.1
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	5.7	0.1	30.7	0	99.7
AFE001	417455, 290269	Attleboro Farm, Attleboro Lane	L	Yes	No	12.9	0.7	139.4	0	100.0
GE002	418977, 290134	Lovegrove Cottage, Gilson Road	M	Yes	No	9.4	1.3	66.5	0	100.0
CHBS001	419155, 290755	6 Gorsey Way, Lichfield Road	L	Yes	No	8.7	0.5	44.0	0	100.0

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

