

Air Quality and Dust Monitoring Monthly Report – July 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 July 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

- Earthworks movement.
- General site maintenance.
- No ongoing construction activities.

Attleboro Lane Overbridge

- No works occurred in July 2025.

Sublot 7

Faraday Avenue Embankment and Underbridge

- Segment Installation Cycle: Self-Propelled Modular Transporters (SPMT) arrival (Segment Delivery), Segment Lifting, Gluing & Installation, Transverse Post Tensioning (TPT) Tensioning.
- Segment Installation Cycle: Swivel Crane Movement.
- Platform & Formwork Operations: Pre-stressing (PRST) / Internal Top Pre-stressing (ITP) Platform Installation & Removal, Formwork Installation & Removal, Stitch Grouting.
- Platform & Formwork Operations: Bearings & Support Shim Grouting.
- Cable & Mast Activities: Stay Cable Tensioning / De-tensioning (Front, Rear, IBP, ITP, External), Mast Movement.
- Cable & Mast Activities: Threading & Tensioning Operations (Including Testing).

- Finalisation & Adjustments: Segment Docking, Hydraulic Jacking, Yoke Beam Connection, Segment Adjustment Works.

Sublot 6NC

Marsh Lane Embankment

- Creation of Piling Platforms & Load Transfer Platforms.
- Dig and Replace.
- Embankment Construction.
- Compound Operation & Haul Road Maintenance.
- Water Orton Culvert Installation.
- Attleboro Farm Culvert Installation.
- Attleboro Flyover, retaining wall and Attleboro Farm embankment retaining wall: Secants pile installation & temporary sheet piles.
- Attleboro Flyover, retaining wall and Attleboro Farm embankment retaining wall.
- Embankment retaining wall: Capping beams, walls and roof slab.
- Stockpile operation.
- Traffic Management.
- Site Generators.
- Operation of Material Deposit / Removal from the Borrow Pit.
- Attleboro Flyover, Retaining Wall: base slab construction.
- Attleboro Farm Embankment Retaining Wall: Base Slab (Including Drainage) & Walls construction.
- Haul Road Operation.

Sublot 5N

Chattle Hill Box Structure

- Bachy Soletanche Balfour Beatty Ground Engineering joint venture (SB3) demobilisation from site.
- Dawson Wam mobilisation and installation of sheet-piles in cofferdam 3&4.
- BBV excavation works in cofferdam-3 for blinding to enable construction of pile caps for P1E&W.

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.

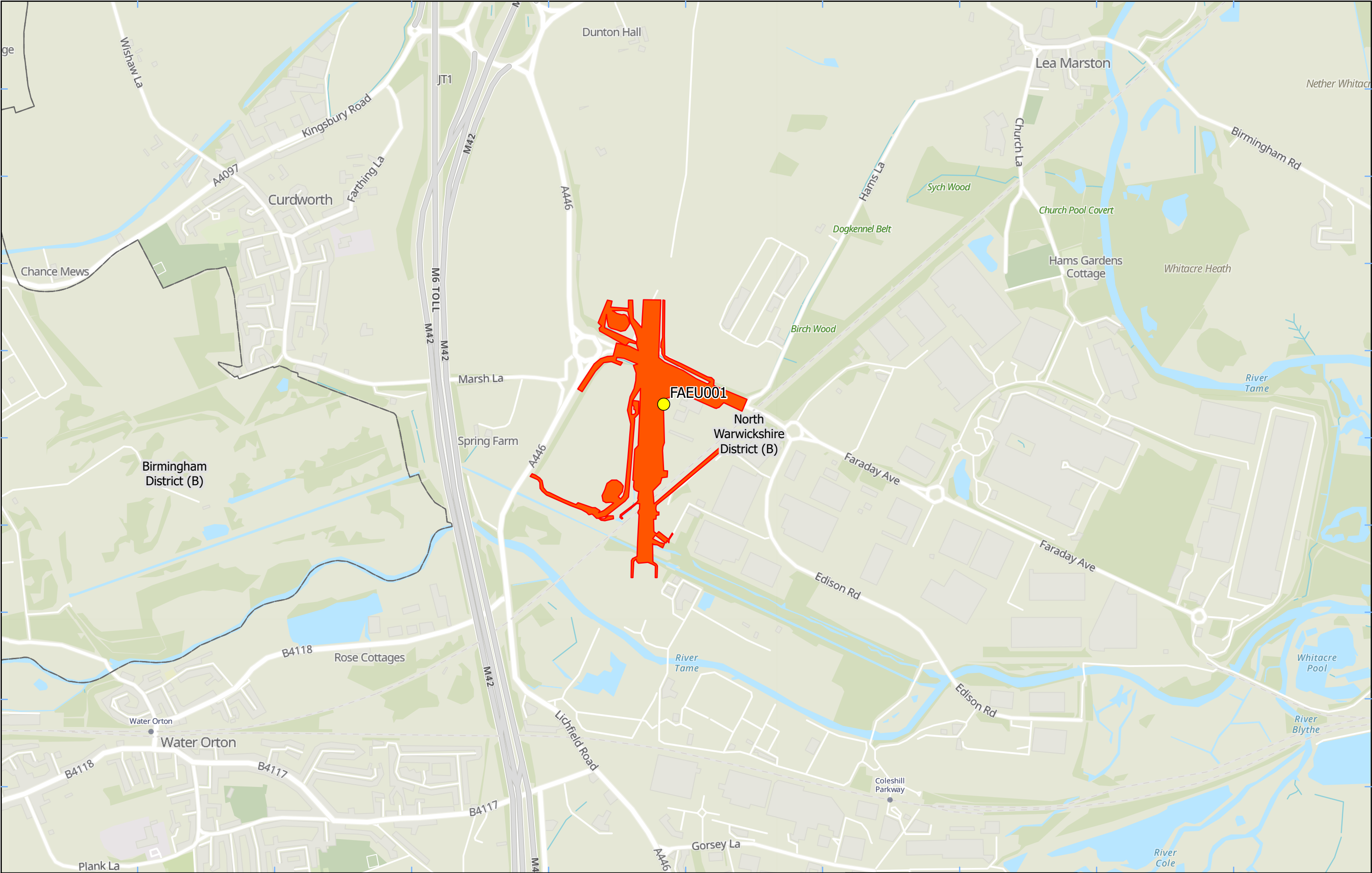
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (July 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor AFE001 – A battery refresh was done on 4th July 2025, a fault investigation site visit was done on 18th July 2025, and a monitor swap out was done on 24th July 2025. After these site visits, the power supply issues were resolved.
 - Monitor FAEU001 – Monitor swap outs were done on 15th July 2025 and 5th August 2025, and a field calibration was done on 22nd July 2025. After these site visits, the technical issues were resolved.
 - Monitor GLD002 – A lab calibration monitor swap out was done on 15th July 2025, and a field calibration was done on 22nd July 2025. A battery refresh is scheduled for 12th August 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 July 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46526-C	N/A	High levels of dust.	Dust unlikely to be related to HS2 works as considerable distance from site. All dust monitors checked, no exceedances were breached. Resident has been supplied with air quality reports for the local area.
HS2-25-123457-E-C	N/A	Increased amount of dust on property. Resident has been informed.	Considerable distance from nearest site, dust unlikely to be from HS2 site. Data has been checked on monitors, no breaches have been recorded. Taking the recent weather events (dry with low rainfall) into consideration, and red dust settling across the UK which has been caused by Saharan dust being carried over by strong winds. 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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Map Number

Map Name

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

North Warwickshire Borough

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Appendix B – Dust Monitoring Results

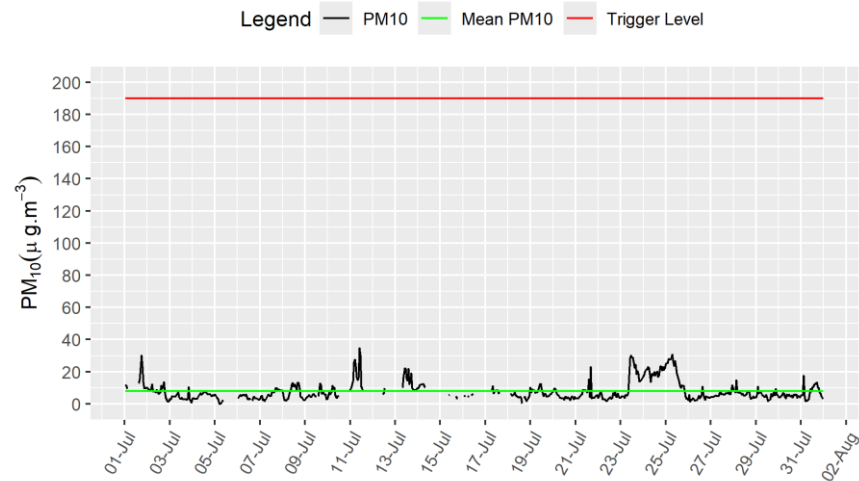
Table 2: Dust Monitoring Locations and Results

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	419279, 288315	New Cottage, Birmingham Road, Coleshill	L	Yes	No	8.1	0.1	46.6	0	100.0
FAEU001	419166, 292265	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	L	Yes	No	4.9	1.9	15.8	0	25.1
GLD002	418811, 289490	Gilson Drive	L	Yes	Yes	9.8	0.3	47.7	0	53.2
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	8.6	0.1	77.9	0	100.0
AFE001	417533, 290153	Attleboro Farm, Attleboro Lane	L	Yes	No	7.9	0.1	34.7	0	81.6
GE002	418977, 290134	Lovegrove Cottage, Gilson Road	M	Yes	No	8.3	0.2	46.7	0	100.0
CHBS001	419157, 290750	6 Gorsey Way, Lichfield Road	L	Yes	No	6.1	0.1	33.0	0	95.3

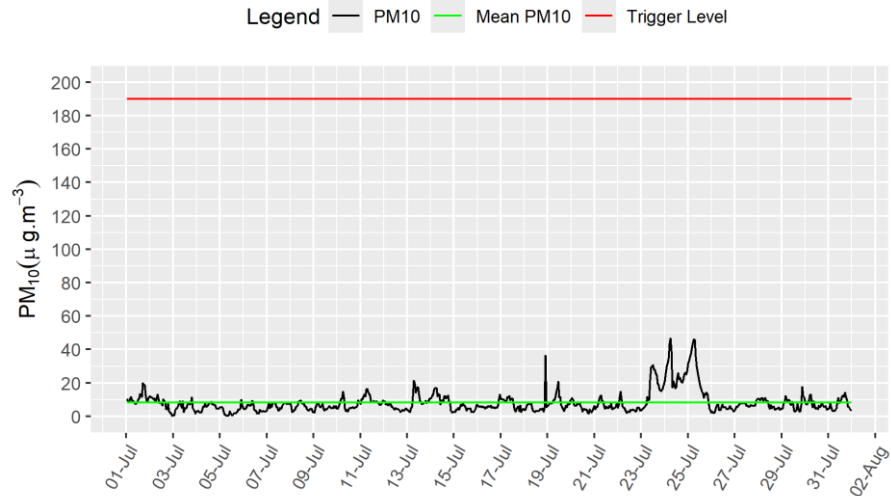
Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



AFE001



GE002



CHBS001

