

Air Quality and Dust Monitoring Monthly Report – June 2023

North Warwickshire Borough Council



Department for Transport

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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 during June 2023.
- 1.1.2 Figure 1 and Figure 2 and Figure 2 in Appendix A indicate the current worksites together with the dust monitoring locations for June 2023.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report 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 Appendix A, Figures 1 and Figure 2, include:

Sublot 6BS

Gilson Drive

- Site information has been requested but not yet received.

Coleshill North Area (north of B4114)

- Construction of permanent piles for B4114; and
- Birmingham Road underbridge North Abutment A15.

Coleshill North Area (north of B4114)

- Temporary road drainage bypass and piling platform extension;
- Bored pile with bentonite construction;
- Topsoil strip;
- Deep excavations; and
- Removal of drainage pipes and installation of overground bypass drain and pumps.

Sublot 7

Marston Box:

- Breaking out of Marston Box structure guide raft and stoning up platform;
- Installation of welfare cabins; and
- Deliveries - Mobile batching plant - not operational.

Faraday Avenue Embankment and Underbridge:

- 20 x materials deliveries per day;
- Faraday avenue embankment earthworks;
- Lime stabilisation; and
- Welfare in operation.

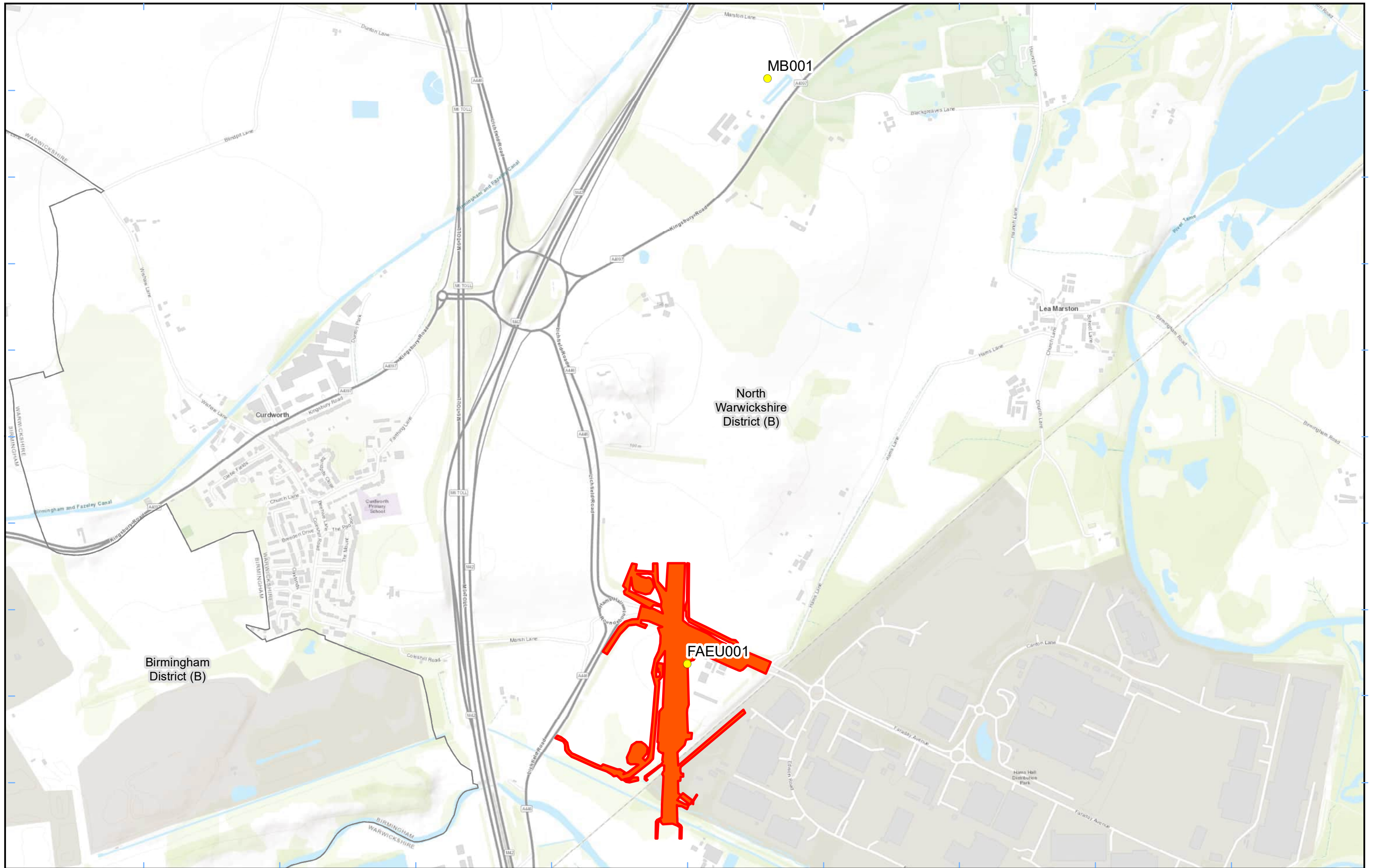
- 1.1.5 Five (5) dust monitors are installed around worksites, where works are underway. These sites returned a medium dusk risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from the dust monitors presented in Figure 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 (June 2023).
- 1.1.9 Data capture was below 90% for multiple monitors in June 2023 due to unreliable data and monitors being turned off prior to decommissioning.
- 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 June 2023

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-23-44715-C	n/a	Dust being kicked up from road sweepers and passing trucks.	Wheel washing in place to minimise dust from traveling vehicles. Following complaint additional dust control equipment deployed in the short term while longer term solutions are considered further.
HS2-23-44719-C	n/a	Dusty "White powder" reported in area.	Embankments being built up. Demisters are being used and the wind speed and direction is also being monitored. This explained to resident and a face-to-face meeting offered.
HS2-23-44727-C	n/a	Dusty air.	Explained the mitigations that are in place and that additional mitigations such as artificial wind breaks and water cannons when required.
HS2-23-44730-C	n/a	Dust in air. Dirty windows.	Explained the mitigations that are in place and that additional mitigations such as artificial wind breaks and water cannons when required.
HS2-23-44763-C	n/a	Air quality poor.	Response provided to the resident. The correspondence was sent on the 16th and 26th June 2023, information has now been collated and submitted for review under the Special Cases Process

Appendix A – Worksites and Monitoring Locations

Figure 1 and Figure 2: Worksites and Monitoring Locations within NWBC



- Legend**
- Dust Monitor
 - District Borough Unitary Boundaries
 - Worksite

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Map Number
Map Name Worksite and Monitoring Locations In NWBC (Sheet 1)
North Warwickshire Borough



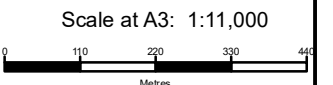
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Legend
 Dust Monitor
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Monitoring Locations
 In NWBC (Sheet 2)**
 North Warwickshire Borough

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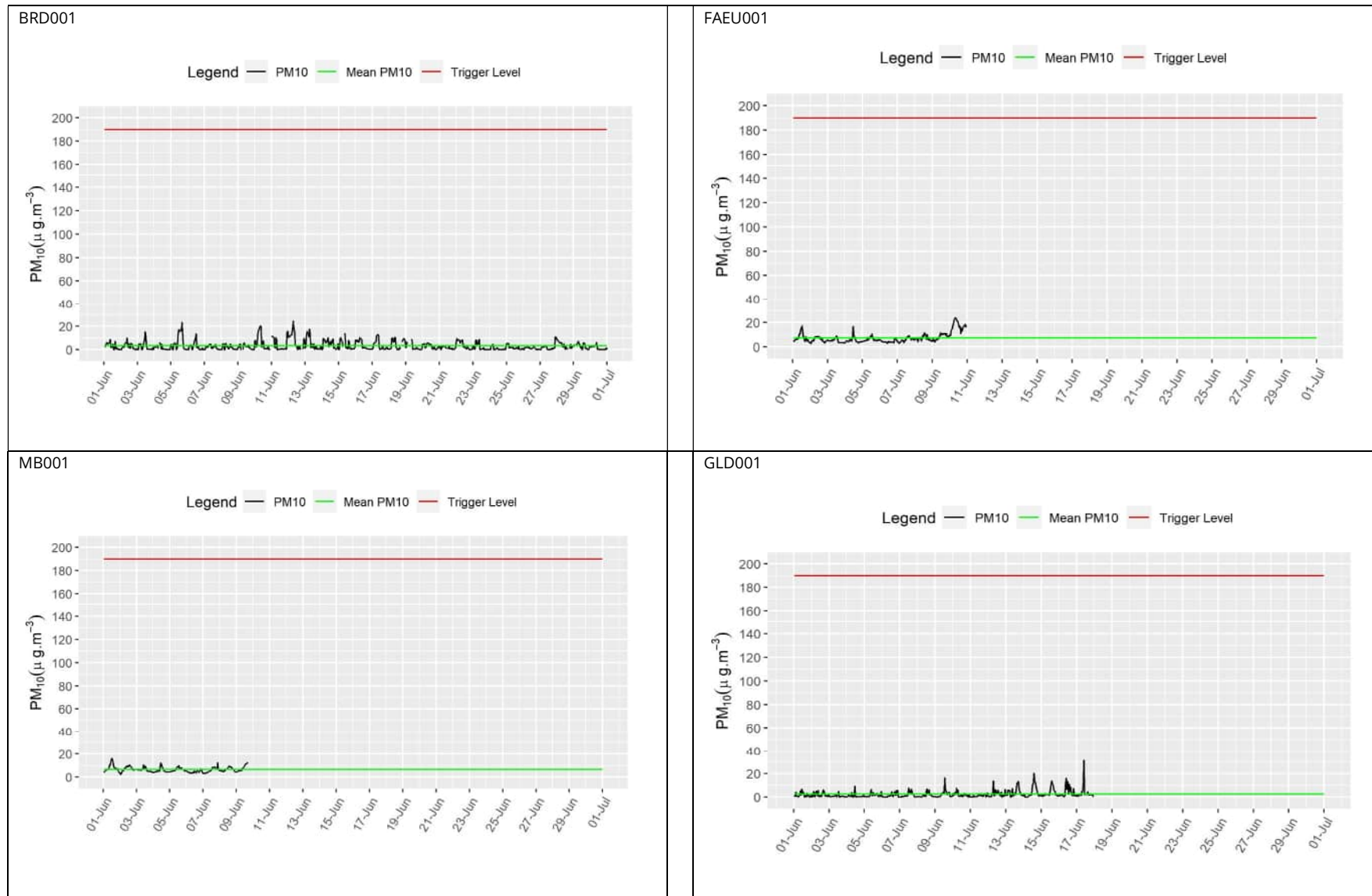
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Appendix B – Dust Monitoring Results

Table 2: Dust Monitoring Locations and June 2023 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	M	Yes	N	3.3	0.0	24.5	0	98.3
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	N	7.4	2.5	24.0	0	33.2
MB001	419421, 294150	Elford House, Marston Box	M	Yes	N	6.5	2.3	16.3	0	29.0
GLD001	418807, 289570	Gilson Drive	M	Yes	N	2.5	0.0	31.4	0	56.5
MLE001	418205, 290509	Vicarage Lane	M	Yes	Y	9.8	1.4	38.3	0	100.0

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



MLE001

