

Air Quality and Dust Monitoring Monthly Report – October 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 Council (NWBC) during October 2023.
- 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

- Reinforcement installation,
- formwork prefabrication and installation.
- Backfilling of cofferdams.

Sublot 7

Faraday Avenue Embankment and Underbridge

- Faraday Avenue Road Diversion - Works stopped

Marston Box

- Excavator separating stone and rebar.
- loading 2 x 20T wagons near Elford to transport to A446 Haul Road for embankment fill.
- Stoning platform south of M42 for SB3 piling.
- SB3 welfare and site mobilisation (Deliveries Welfare x2, mobile crane, 4 x bentonite tanks, 1 x piling rig).

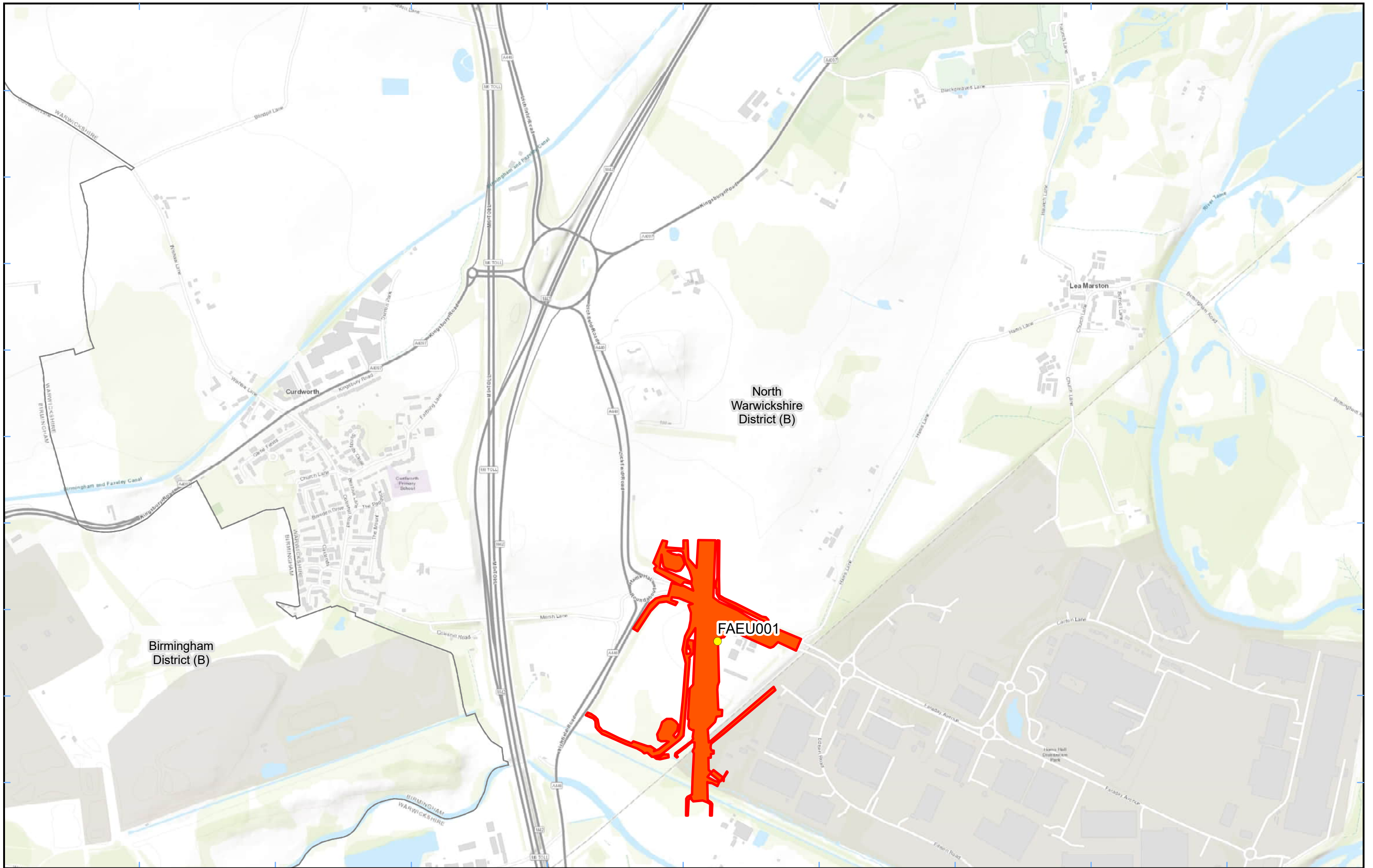
Sublot 6NC

- Earthworks and lime stabilisation of the Marsh Lane Embankment.

- 1.1.5 Six (6) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, 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 (October 2023).
- 1.1.9 There were no (0) complaints received during this reporting period (October 2023).

Appendix A – Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within NWBC



Legend

- Dust Monitor
- District Borough Unitary Boundaries
- Worksite

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Map Number

Map Name
**Monitoring Locations
 In NWBC (Sheet 1)**

North Warwickshire Borough

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0 110 220 330 440
 Metres

Date: 12/10/23



Legend
 Dust Monitor
 District Borough Unitary Boundaries

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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

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Appendix B – Dust Monitoring Results

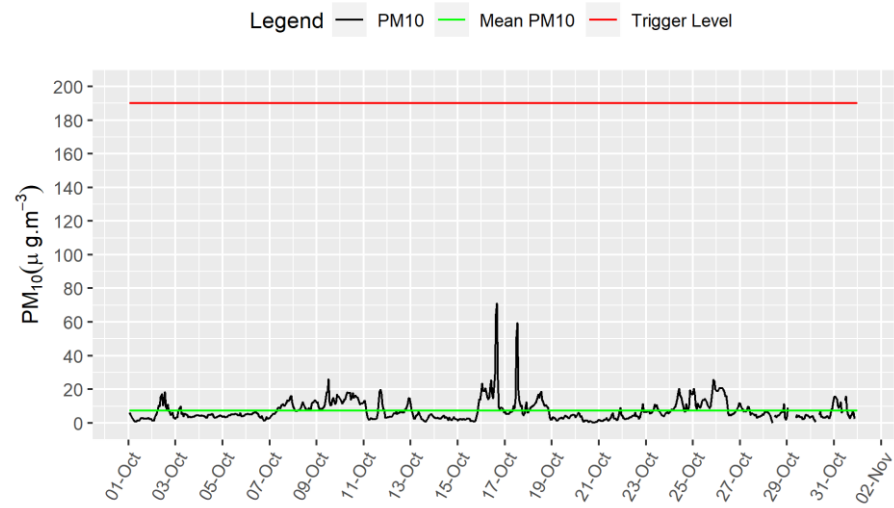
Table 1: Dust Monitoring Locations and Results

| 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 | M | Yes | No | 6.5 | 0.1 | 26.8 | 0 | 94.5 |
| FAEU001 | 419164, 292273 | Faraday Avenue Embankment and Underbridge, at Orchard Cottage | M | Yes | No | 8.5 | 0.3 | 43.6 | 0 | 99.9 |
| GLD001 | 418807, 289570 | Gilson Drive | M | Yes | No | 6.3 | 0.1 | 27.5 | 0 | 95.0 |
| MLE001 | 418205, 290509 | Vicarage Lane | M | Yes | Yes | 9.1 | 0.2 | 48.3 | 0 | 99.9 |
| AFE001 | 417455, 290269 | Attleboro Farm, Attleboro Lane | M | Yes | No | 7.4 | 0.1 | 71.1 | 0 | 98.3 |
| GE001 | 418886, 290192 | Lovegrove Cottage, Gilson Road | M | Yes | No | 7.8 | 0.2 | 100.8 | 0 | 99.9 |

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



AFE001



GE001

