

Air Quality and Dust Monitoring Monthly Report – March 2023

North Warwickshire Borough Council



Department for Transport

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High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

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 (NWBC) during March 2023.

1.1.2 Figures 1 and 2 in Appendix A indicate the current worksites together with the dust monitoring locations for March 2023.

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 Appendix A, Figures 1 and 2, include:

Coleshill Embankment and viaduct (Sublot 6BS)

Coleshill North Area (north of B4114):

- Construction of temporary road diversion including earthworks and drainage.
- Import of embankment fill material

Coleshill South Area (south of B4114):

- Construction of PSV site compound and haul roads.
- Construction of piling platforms for Coleshill Viaducts Access of site for subplot 5S use.

Faraday Avenue Embankment and Underbridge site (Sublot 7)

Marston Box:

- From 27th March: Breaking out the guide raft.

Faraday Avenue Embankment and Underbridge:

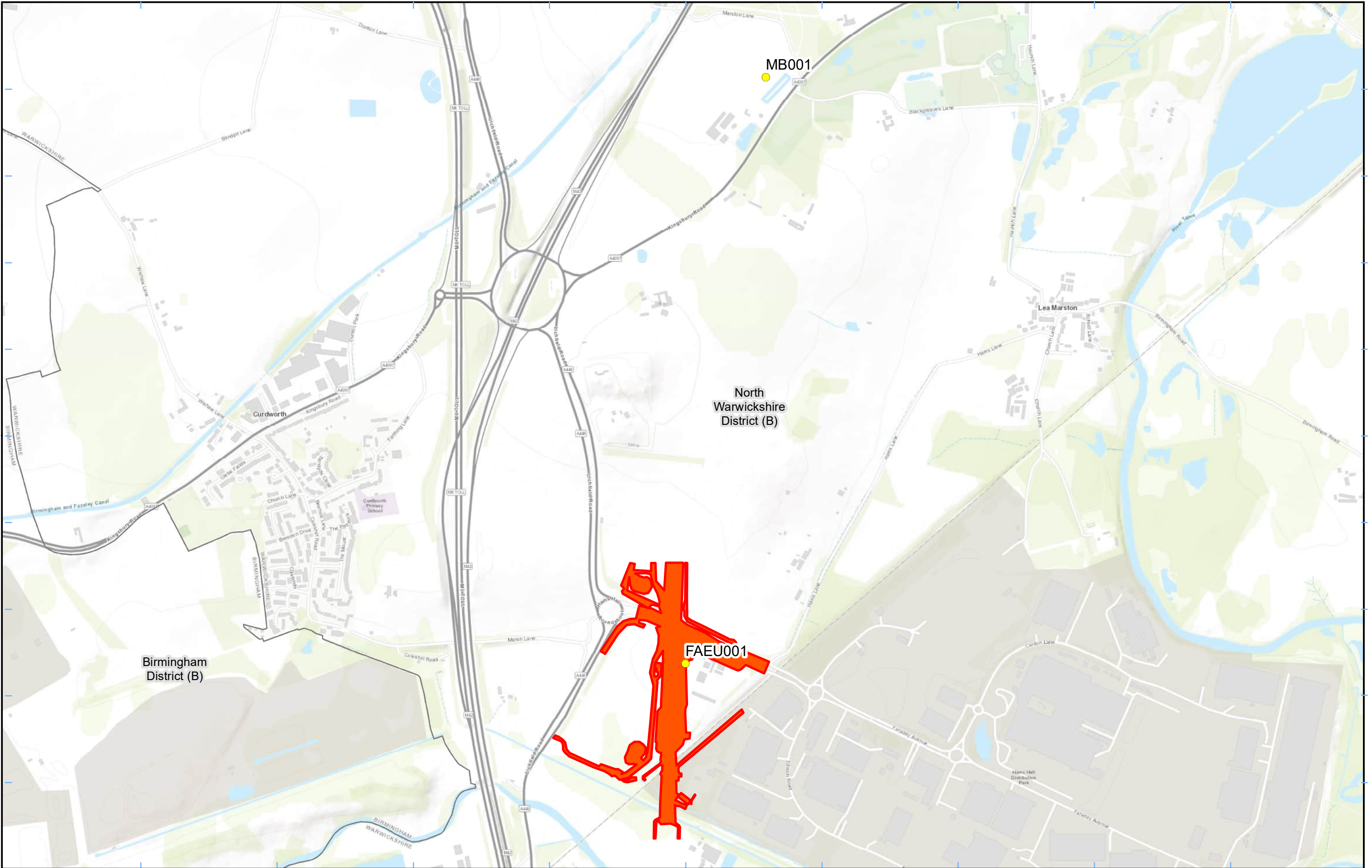
- SB3 continued piling works to end of March.
- Concrete deliveries, and movement of welfare cabins.
- Road sweeper in use across access to Faraday Avenue.

1.1.5 Four (4) dust monitors are installed at 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 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 mitigations.
- 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 There were no (0) dust trigger alerts recorded during the monitoring period (March 2023).
- 1.1.9 There were no (0) complaints received during this reporting period (March 2023).

Appendix A – Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within the 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

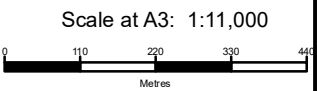


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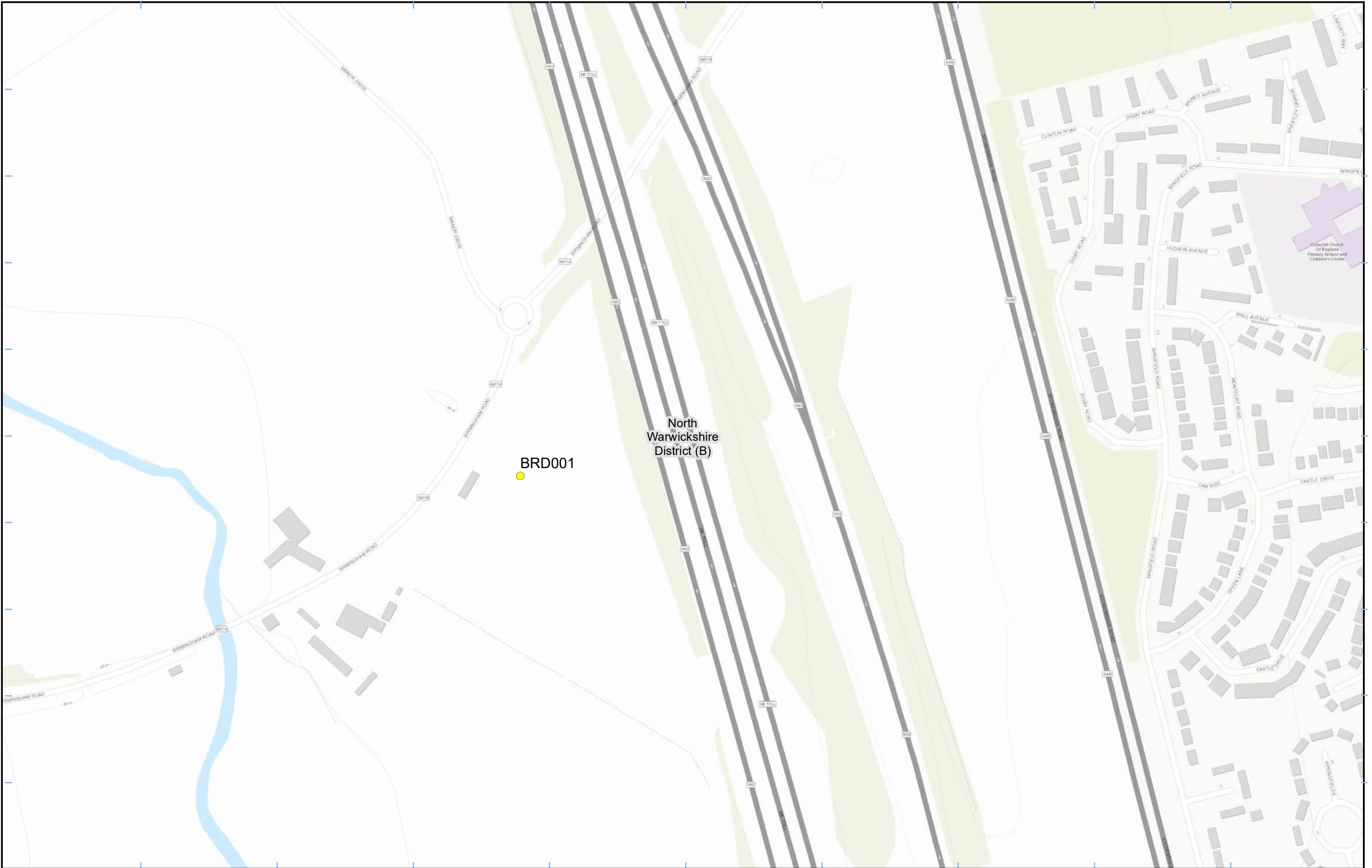
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Legend
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 District Borough Unitary Boundaries

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

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Metres

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Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and March 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	No	6.0	0.2	48.9	0	99.7
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	No	5.4	0.9	24.1	0	99.7
MB001	419421, 294150	Elford House, Marston Box	M	Yes	No	5.3	0.1	64.4	0	99.2
GLD001	418807, 289570	Gilson Drive	M	Yes	No	1.0	0.1	11.1	0	90.7

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

