

Air Quality and Dust Monitoring Monthly Report – September 2022

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 for North Warwickshire Borough Council (NWBC) during September 2022.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring locations for September 2022.
- 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, Figure 1, include:

Sublot 6BS

- Earthworks; and
- Ground preparation.

Sublot 7

- Bell mouth and noise barrier construction.

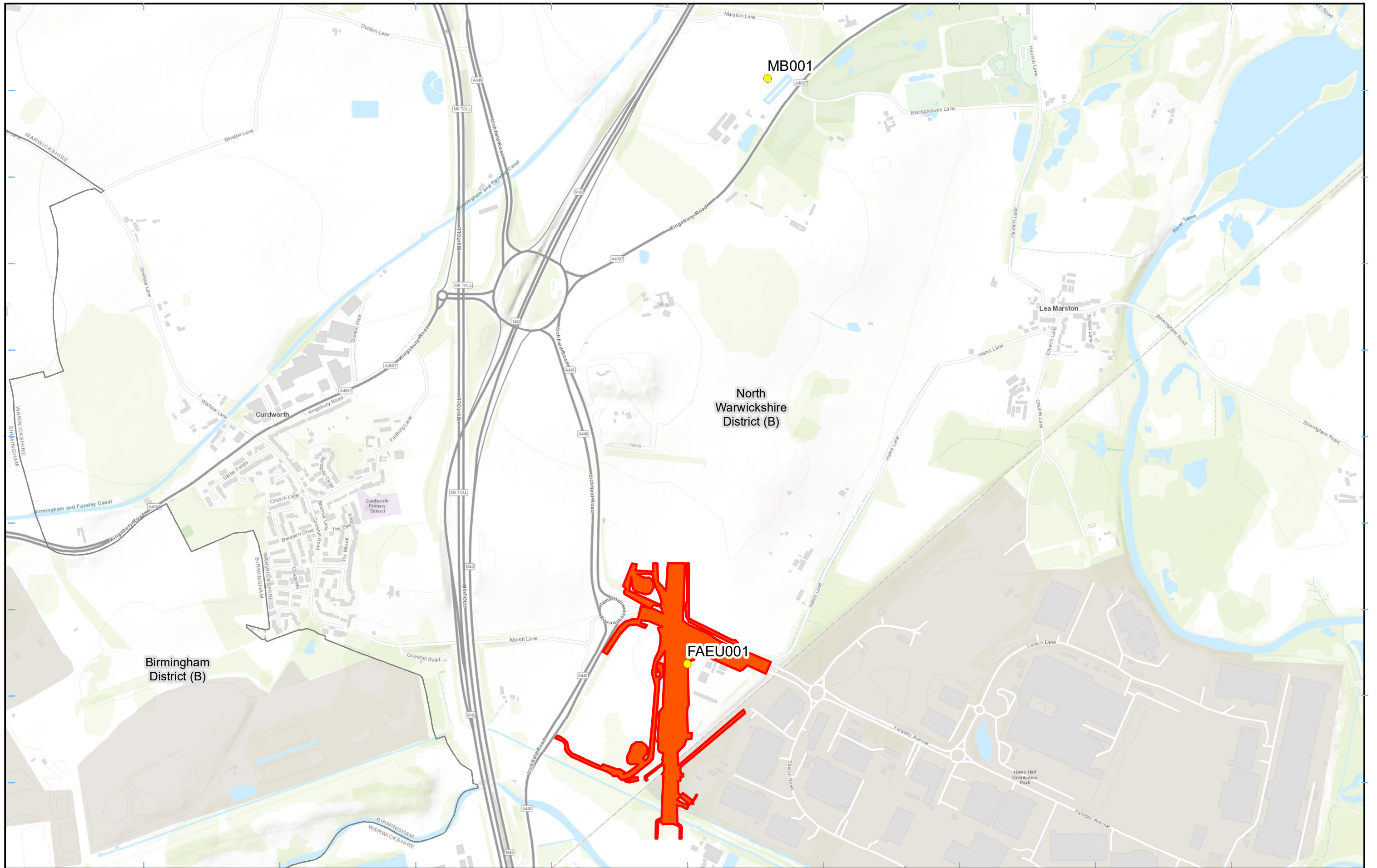
- 1.1.5 Three (3) dust monitors are installed at worksites, where works are underway. These sites returned a medium dust risk rating for dust soiling effects.
- 1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitor presented in Figure 2. 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 (September 2022).
- 1.1.9 There were no (0) complaints received during this reporting period (September 2022).

Appendix A – Worksites and Monitoring Locations

Figure 1: 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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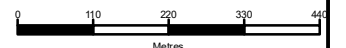


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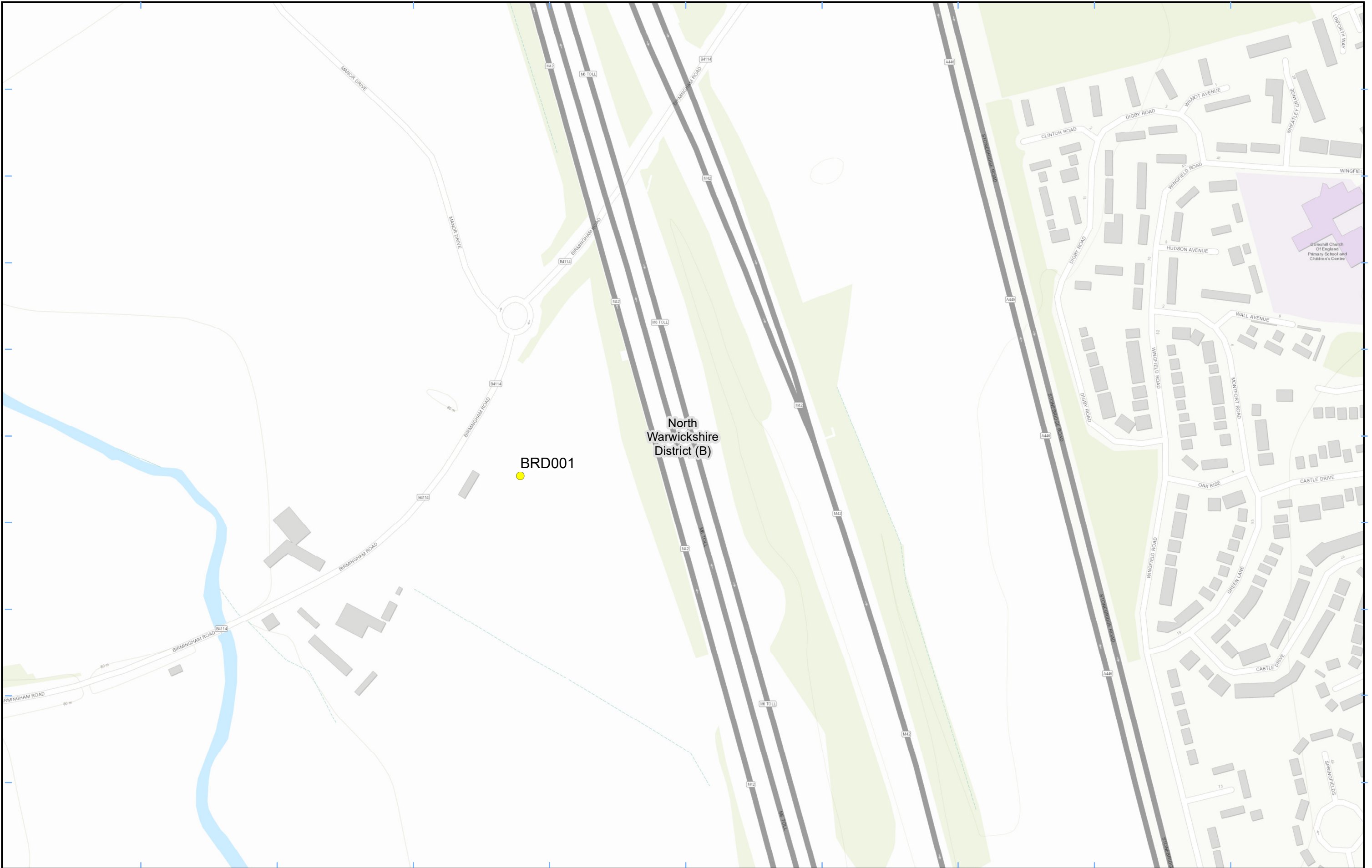
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Date: 25/10/22



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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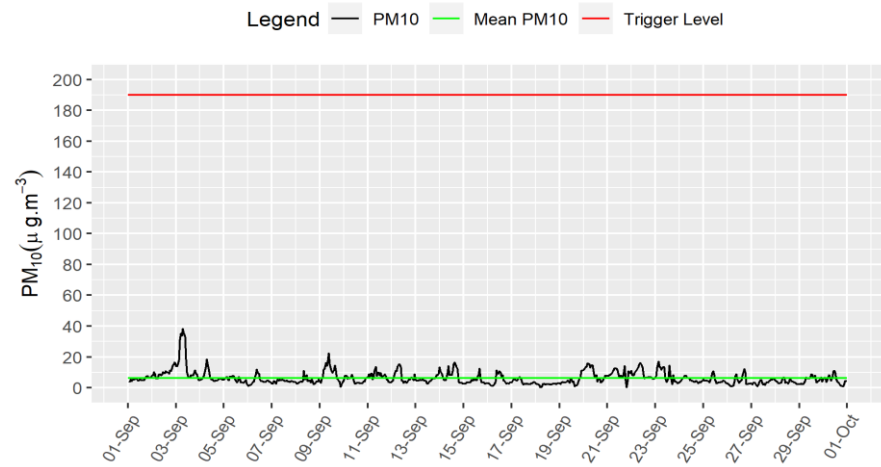
Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and September 2022 results

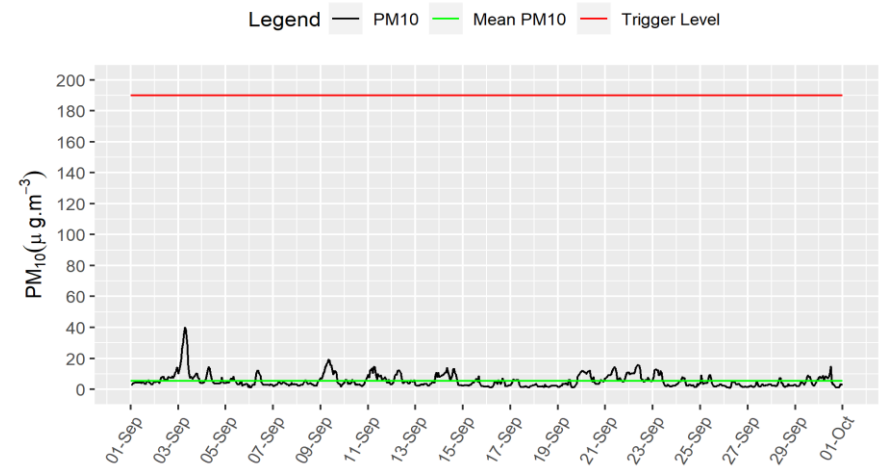
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number 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	6.3	0.2	38.4	0	100.0
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	No	5.5	0.9	40.0	0	100.0
MB001	419421, 294150	Elford house, Marston Box	M	Yes	No	6.7	0.4	39.7	0	100.0

Figure 2: Construction dust 1-hour mean indicative PM10 concentration for all dust monitors.

BRD001



FAEU001



MB001

