

## Air Quality and Dust Monitoring Monthly Report – August 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](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://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 Council (NWBC) during August 2023.

1.1.2 Figure 1 to Figure 2 in Appendix A indicate the current worksites together with the dust monitoring locations.

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](http://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 to Figure 2, include:

## **Sublot 7**

### Faraday Avenue Embankment

- MLN: Faraday Avenue Road Diversion works ongoing from 1-19th August - manhole construction; and
- Plant in use: 1 x excavator, 1 x bowser and tractor (19/08/2023 - All works on Faraday Avenue Diversion stopped).

### Marston Box

- Breaking out of Marston Box guide raft next to M42; and
- Plant in use: x2 Excavator with breaker, 1 x dozer.

### Water Orton

- Earthworks; and
- Stabilisation works.

1.1.5 Four (4) dust monitors are installed around worksites, where works are underway. These sites returned a medium dust risk rating.

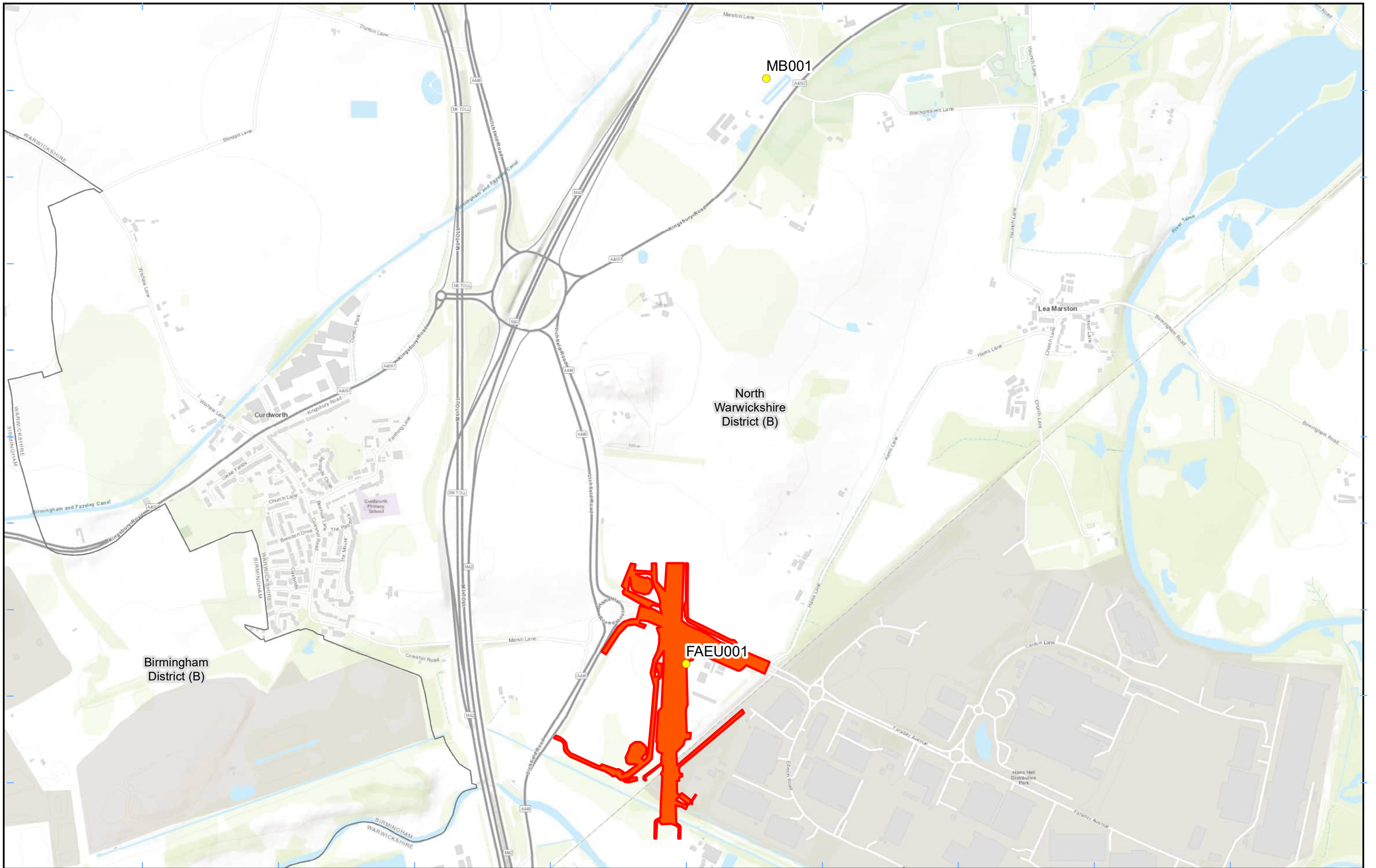
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor, in Figure 3. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors 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 PM<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, 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 (August 2023).
- 1.1.9 Dust monitor MB001, situated at Elford House was not active during the monitoring period and was decommissioned on 11<sup>th</sup> August 2023 due to it no longer being accessible and works decreasing in the area.
- 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 August 2023.

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-23-44852-C		Dust and air quality concern.	Contractor contacted resident to explain works in more detail, ensuring constant monitoring of area.

# Appendix A – Worksites and Monitoring Locations


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



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

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



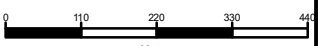
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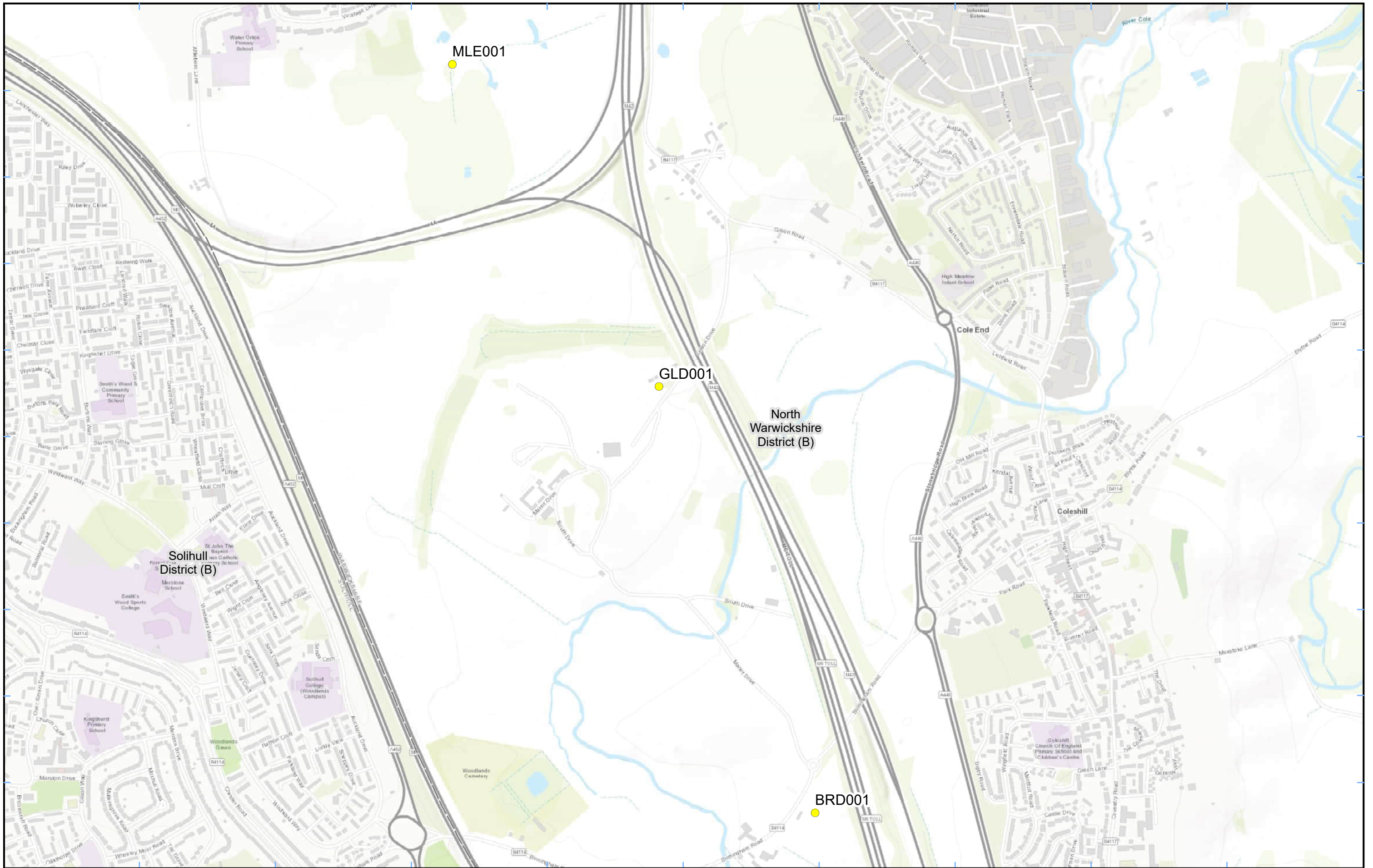


Scale at A3: 1:11,000



Metres

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 2: Dust Monitoring Locations and August 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 <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1- hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture (%)
BRD001	419262, 288328	New Cottage, Birmingham Road, Coleshill	M	Yes	N	2.4	0.0	21.3	0	97.6
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	N	7.2	0.4	77.7	0	100.0
GLD001	418807, 289570	Gilson Drive	M	Yes	N	3.7	0.0	31.9	0	100.0
MLE001	418205, 290509	Vicarage Lane	M	Yes	Y	6.3	0.8	61.4	0	100.0



Figure 3: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for dust monitors

