

Air Quality and Dust Monitoring Monthly Report – October 2021

Solihull Metropolitan 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 in the Solihull Metropolitan Borough Council (SMBC) during October 2021.
- 1.1.2 Figure 1 and 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 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 phase of works commenced in September 2020 and is expected to be completed by 2026. The current worksites, as presented in Appendix A, Figure 1 and Figure 2, include:
- Sublot 2B3**
- Soil stripping for haul road construction;
 - Drainage pond construction; and
 - Stockpiling
- Sublot 5s**
- Earthworks associated with Bickenhill Cutting asset; and
 - Construction of platforms.
- 1.1.5 Three (3) 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 1 together with line charts of monthly data from each dust monitor, in Figures 3 to Figure 5. 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 dust trigger alerts were recorded during the monitoring period (October 2021).
- 1.1.9 There were no (0) complaints received during this reporting period.

Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure2: Worksites and monitoring locations within the SMBC



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

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Map Number
Map Name Worksite and Monitoring Locations In SMBC (Sheet 1)
Solihull Metropolitan Borough



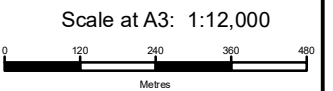
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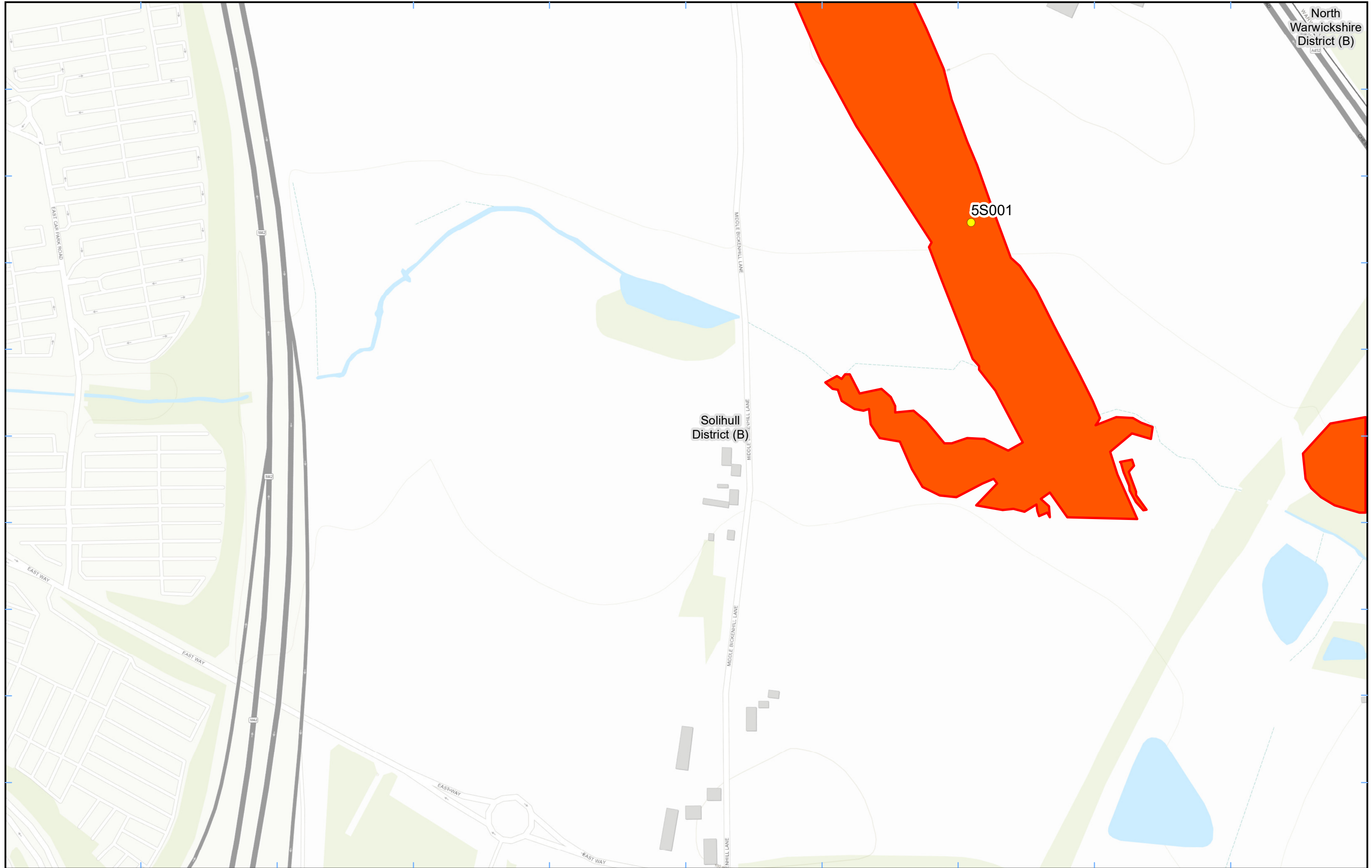
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- Legend**
- Dust Monitor
 - District Borough Unitary Boundaries
 - Worksites

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Map Number
Map Name Worksite and Monitoring Locations In SMBC (Sheet 2)
Solihull Metropolitan Borough



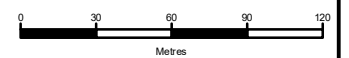
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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and October 2021 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 (%)
2B3001	422322, 280034	Sublot 2B3, at Mash Farm	M	Yes	No	4.7	0.1	37.0	0	92.9
2B3002	424601, 277729	Sublot 2B3, at Cherry Tree Cottage	M	Yes	No	4.1	0.1	30.0	0	99.6
5S001	420492, 283783	Sublot 5S, at Hollywell Brook	M	Yes	No	4.8	0.3	24.8	0	99.9

Figure 3 to 5: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitors

