

## Air Quality and Dust Monitoring Monthly Report – December 2021

Warwick District 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 Warwick District Council (WDC) during December 2021.
- 1.1.2 Figures 1 and 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](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 phase of works commenced in April 2021 and is expected to be completed by 2023-24. The current worksites, as presented in Appendix A, Figure 1 and 2, include:

## **Sublot 2B2**

- Construction of the haul road and compound;
- Earthworks; and
- Removal of tree roots and vegetation.

## **Sublot 2AS**

- Compound extension;
- Crossing construction and road widening;
- Subsoil stockpile; and
- Earthworks cutting.

## **Sublot 2B1**

- Soil stripping;
- Stockpiling; and
- Temporary drainage construction.

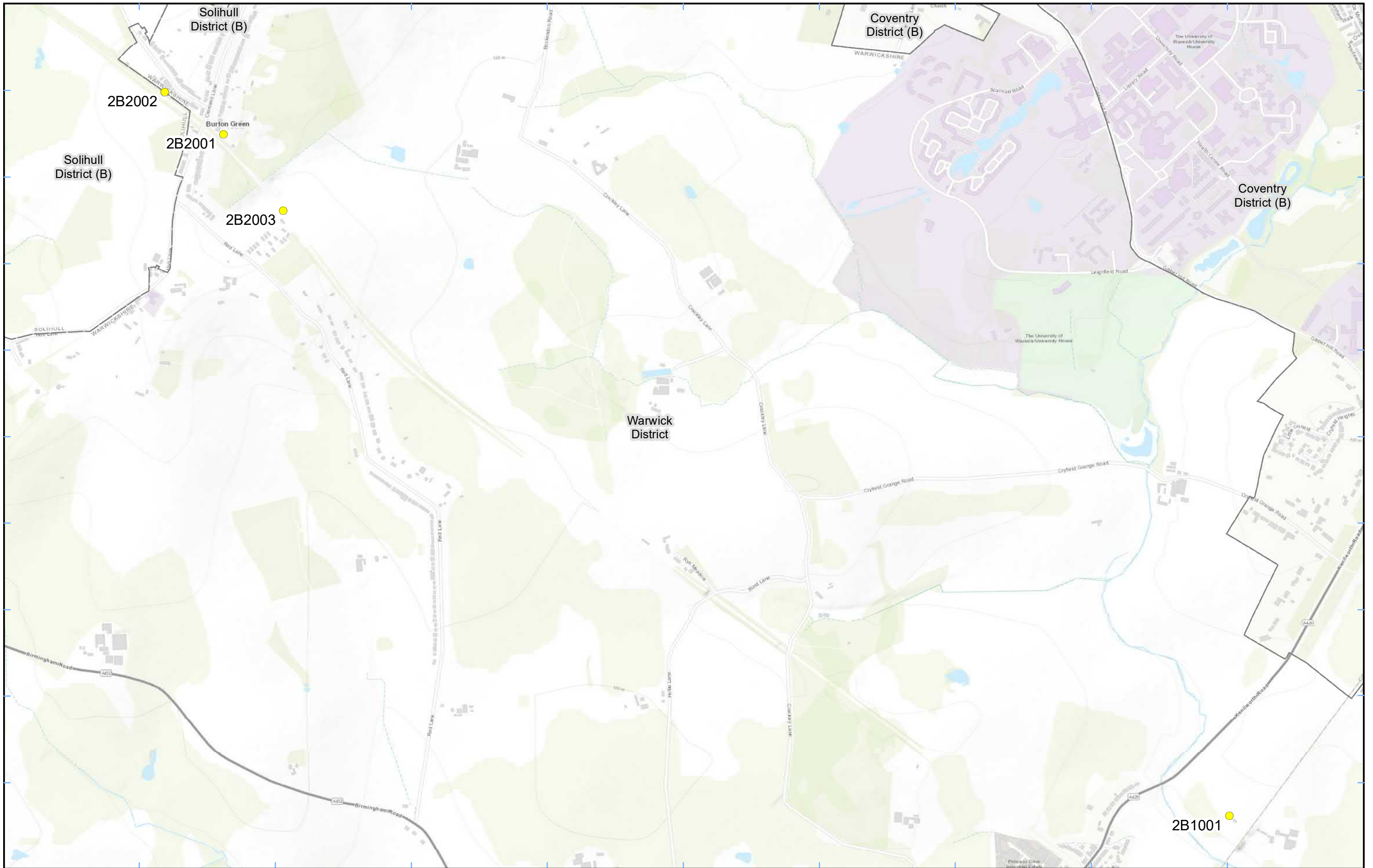
- 1.1.5 Five (5) dust monitors have been installed around worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitors presented 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 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 (December 2021).
- 1.1.9 Data capture was below 90% for multiple monitors in December 2021 due to power supply issues.
- 1.1.10 There were no (0) dust complaints received during the reporting period.

# Appendix A – Worksites and Monitoring Locations

Figure 1 and 2: Worksites and monitoring locations within the WDC



**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  
**Worksite and Monitoring Locations  
 In WDC (Sheet 1)**  
 Warwick District Council

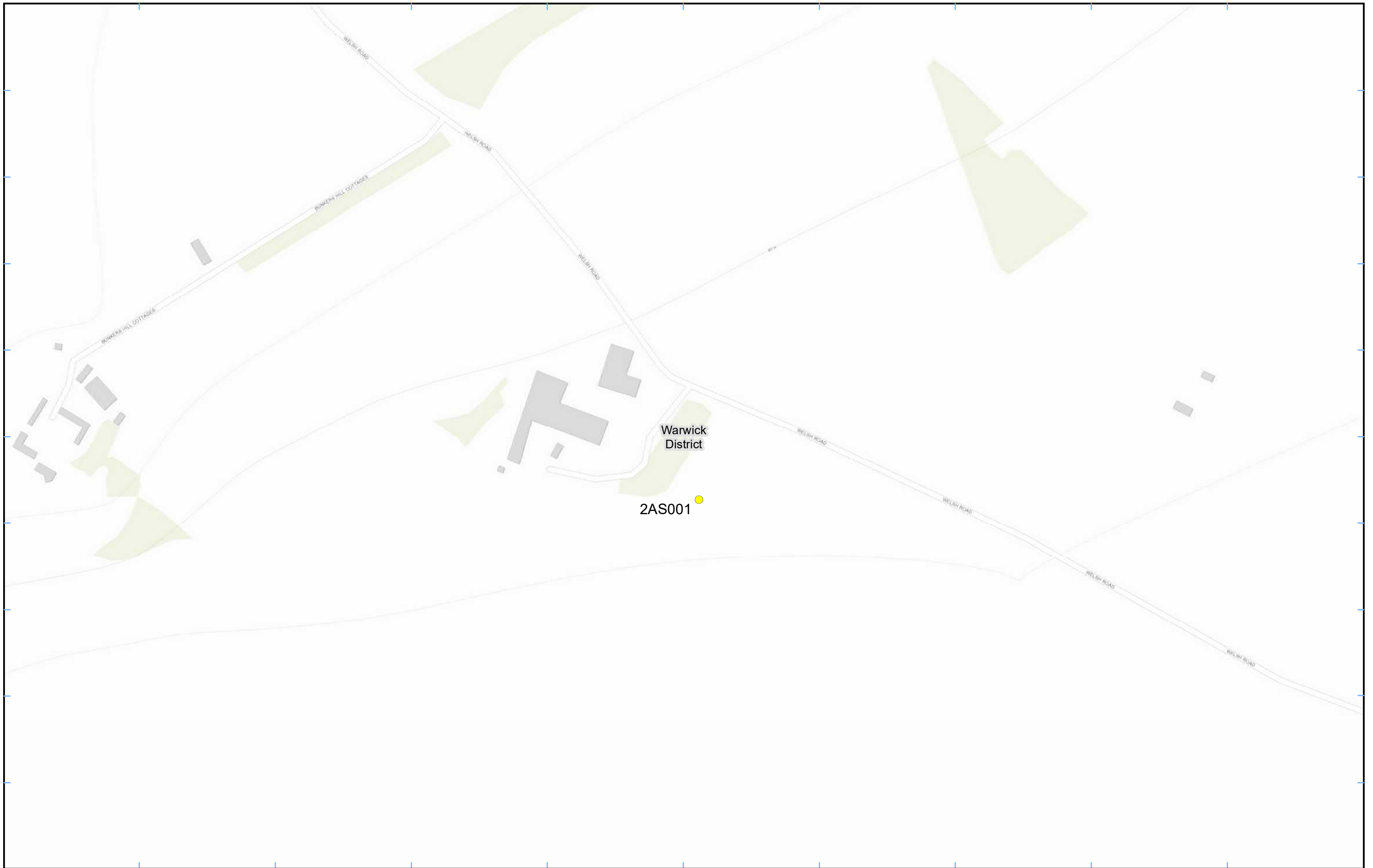
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**Legend**  
 ● Dust Monitor  
 □ District Borough Unitary Boundaries

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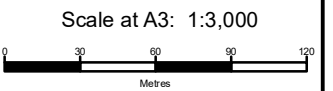
Map Number  
 Map Name  
**Worksite and Monitoring Locations  
 In WDC (Sheet 2)**  
 Warwick District Council



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## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and December 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 <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 (%)
2B1001	430183, 273698	Sublot 2B1, at nearest sensitive receptor, Brookview Farm, Millburn Grange	M	Yes	No	2.7	0.1	14	0	21.6
2B2001	426960, 275882	Sublot 2B2, at nearest sensitive receptor on Cromwell Lane	M	Yes	No	13.3	0.6	74.6	0	43.4
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	3.9	0.1	43.5	0	19.5
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	6.5	0.6	43.8	0	43.1
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	No	0.0	0.0	0.0	0	0.0



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

