

Air Quality and Dust Monitoring Monthly Report – February 2024

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.

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.

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2024, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v2.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/version/2 **OGI** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



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 within Warwick District Council (WDC) during February 2024.
- 1.1.2 Figures 1 to Figure 3 in Appendix A present 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 worksites, as presented in Appendix A, Figures 1 to 3, include:

Sublot 2A2

Fosse Way Main – Long Itchington Road

- Operation of Roadhead at Fosse Way Compound.
- Crane platforms, drainage, and haul road construction to Fosse Way Overbridge.
- Pile breakdown at Fosse Way Overbridge.
- Blinding to piers and abutments at Fosse Way Overbridge.
- Set up welfare cabins for Galldriss at Fosse Way Overbridge.
- Diversion of Offchurch Greenway and footpath W193.

Stoneleigh Park – East Lodge

- Operational haul road.
- Piling.
- Construction of pile caps.
- North Accommodation Over Bridge Concrete Kerb in-situ Stitch Pour.
- Site Maintenance.

Cubbington Compound Worksite

- Piling works.
- Haul road maintenance.
- Wheel wash maintenance.

Burton Green Tunnel (Sublot 2B2)

- Tunnel excavation/diggers.

Sublot 2AS

Offchurch Cutting – Welsh Road Farm

- Welsh Road Underbridge steel install and formwork to wingwall 1a and deck.
- Hydro demolition to base 4 of Welsh Road Underbridge.
- Stone platform construction north and south of canal.
- Sheet piled cofferdam installation.
- Sheet piling canal wall and cofferdams to south of canal.
- Bored piling to south side of canal.
- Installation of bentonite farm to north and south side of canal.
- Drainage install at Grand Union canal embankment.
- Concrete piling works.

Offchurch Cutting – Valley Fields

- Severn Trent - trenching works and pipe install for water main diversion.
- Hydro demolition to abutment AB3 at Hunningham Road Overbridge.
- Remedial works to piers 1 and 2 at Hunningham Rd overbridge.
- Bulk Earthworks to River Leam Embankment area.
- Install permanent drainage pipes and manholes at River Leam Embankment.
- Technical backfill to piers and abutments at Hunningham Road Overbridge.
- Complete back blinding to Wingwalls at Hunningham Road Overbridge.

A429 Kenilworth Road Overbridge (Sublot 2B1)

- Earthworks.
- Moving stockpiles.
- Excavators.
- Articulated Dump Trucks (ADTs).

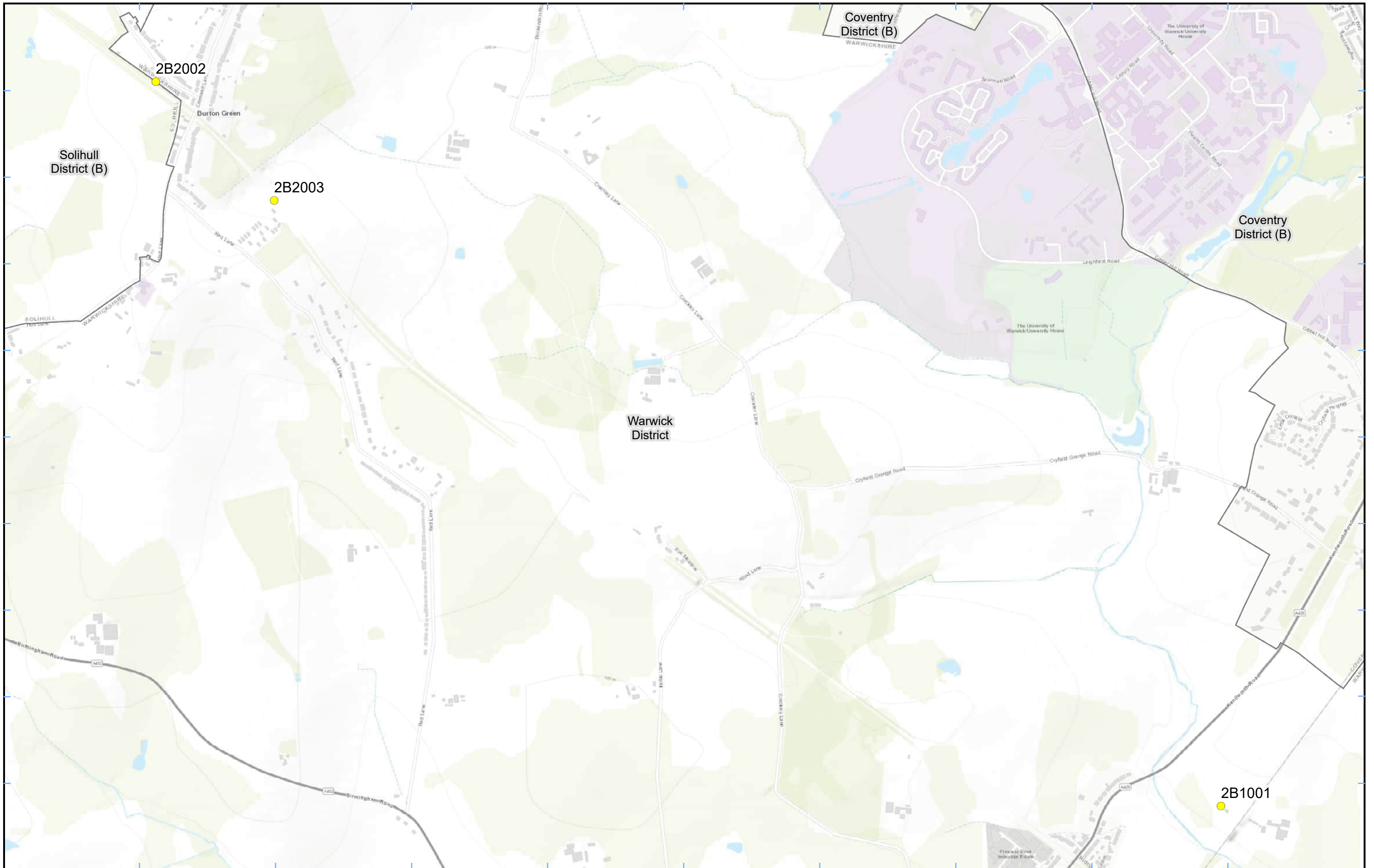
1.1.5 Nine (9) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.

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, presented in Figure 4. 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 (0) dust trigger alerts were recorded during the monitoring period (February 2024).
- 1.1.9 Data capture was below 90% for multiple monitors due to less sunlight and more overcast weather conditions, than normally expected for January, which resulted in the batteries were not able to be charged sufficiently, resulting in more battery failures. To mitigate this, site visits to refresh failed batteries were conducted throughout February.
- 1.1.10 There were no (0) complaints received during the reporting period (February 2024).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within WDC



Legend
 Dust
 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
**Monitoring Locations
 In WDC (Sheet 1)**
 Warwick District Council

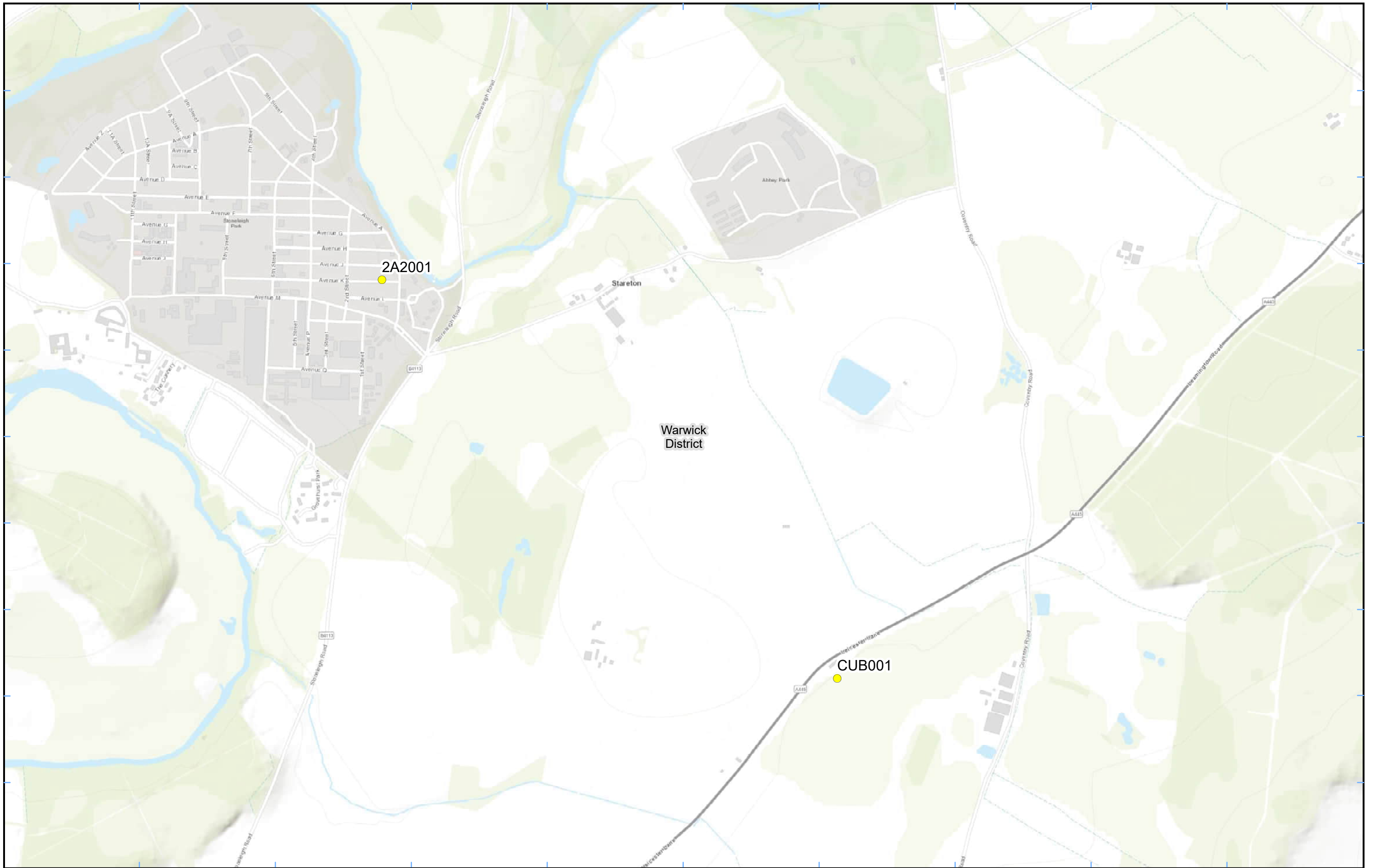
HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
 Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2023.
 Ordnance Survey Licence Number 100049190.

Scale at A3: 1:11,000

Doc Number: Date: 06/07/23



Legend
 Dust
 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
**Monitoring Locations
 In WDC (Sheet 2)**
 Warwick District Council

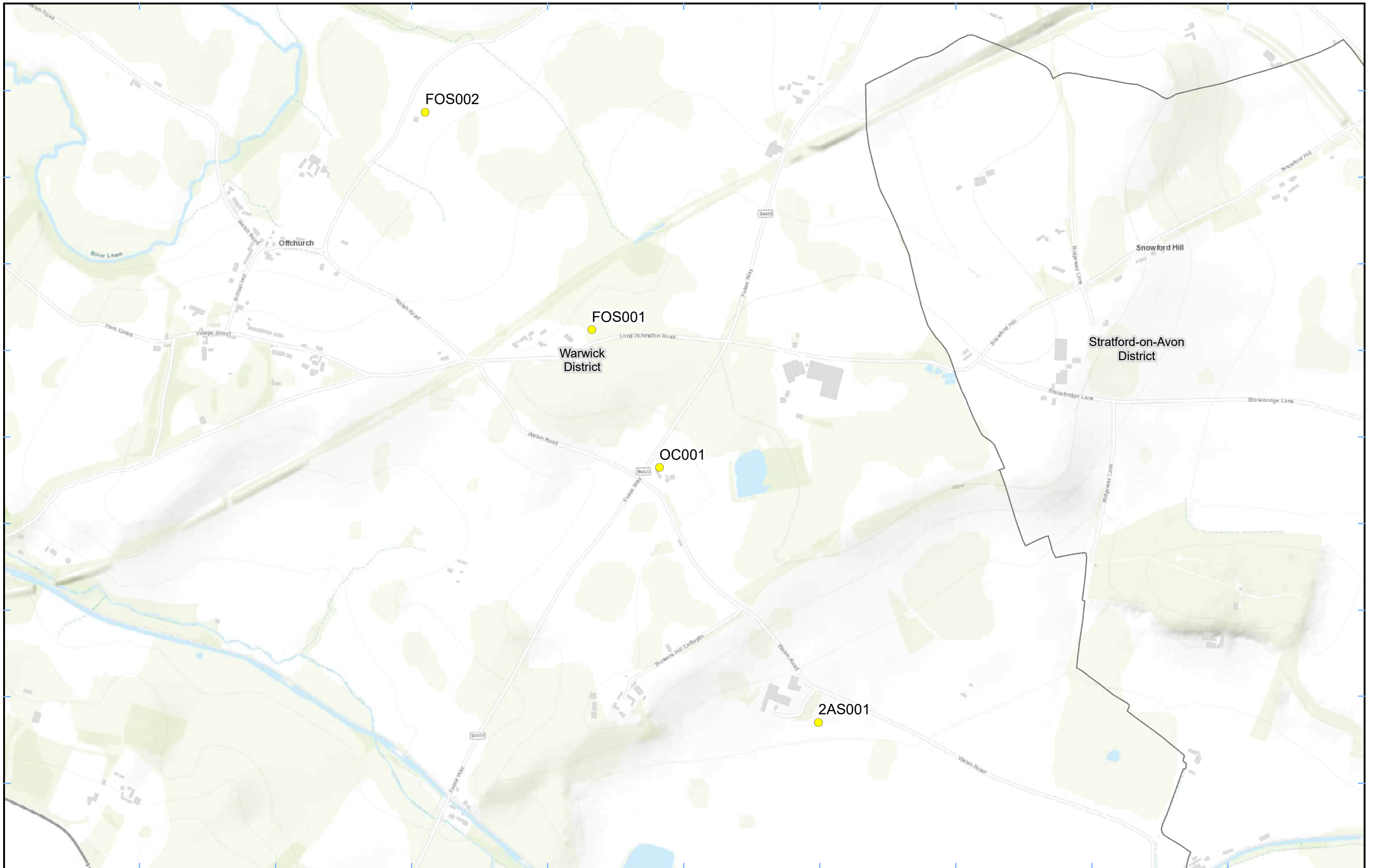
HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.



Registered in England. Registration number 06791686.
 Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2023.
 Ordnance Survey Licence Number 100049190.

Scale at A3: 1:10,000


Doc Number: **Date: 06/07/23**



Legend
 Dust
 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
**Monitoring Locations
 In WDC (Sheet 3)**
 Warwick District Council

 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
 Registered office: 2 Snowhill, Queensway,
 Birmingham B4 6GA.

© Crown copyright and database rights 2023.
 Ordnance Survey Licence Number 100049190.

Scale at A3: 1:10,000



Doc Number: **Date: 06/07/23**

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and 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 (%)
2A2001	432798, 271434	East Lodge, Stoneleigh Park	M	Yes	No	4.0	0.1	17.3	0	99.3
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	5.8	0.1	31.3	0	81.5
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	2.1	0.1	62.8	0	96.0
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	0.7	0.1	14.6	0	79.5
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	Yes	5.8	0.1	21.0	0	100.0
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	M	Yes	No	8.4	0.1	68.3	0	100.0
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	4.7	0.1	18.9	0	99.9
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	3.8	0.1	22.1	0	73.7
FOS002	436429, 266276	Valley Fields, Fosse Way Main	M	Yes	No	0.5	0.1	9.3	0	57.5

Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

