

March 2023

# Air Quality and Dust Monitoring Monthly Report – March 2023 Warwick District Council

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A report prepared by EWCs and MWCCs on behalf of HS<sub>2</sub> 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 (WDC) during March 2023.
- 1.1.2 Figures 1 to 3 in Appendix A indicate the current worksites together with the dust monitoring locations for March 2023.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from <u>www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2</u>, 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:

#### The East Lodge Stoneleigh Park site (Sublot 2A2)

#### Stoneleigh Park:

- Operational haul road.
- Piling.
- Fencing.
- Stockpile maintenance.
- BH installation.

#### Offchurch Cutting:

- Welsh Road UB installation of reinforcement to base installation.
- Placement of fill from Conveyor belt (from SL1) to form GUC embankment.
- Offchurch Cutting topsoiling and drainage blanket.
- Offchurch Cutting Lime stabilisation works.
- Construct Fosse Way Plant crossing.
- Stone platform and Drainage and ducting to Fosse Way Road head.
- Reinforcement to wall test panel at Fosse Way Compound.
- Construct Fosse Way Plant crossing transition slab.
- Construct RC tipping slab to Road head at Fosse Way.
- Construct RC slab for Jet wash area to Road Head.

#### Burton Green Tunnel (Sublot 2B2)

- Digging roof slab.
- Hydro Gen.

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• Utilities works.

#### Welsh Road Underbridge Satellite Compound (Sublot 2AS)

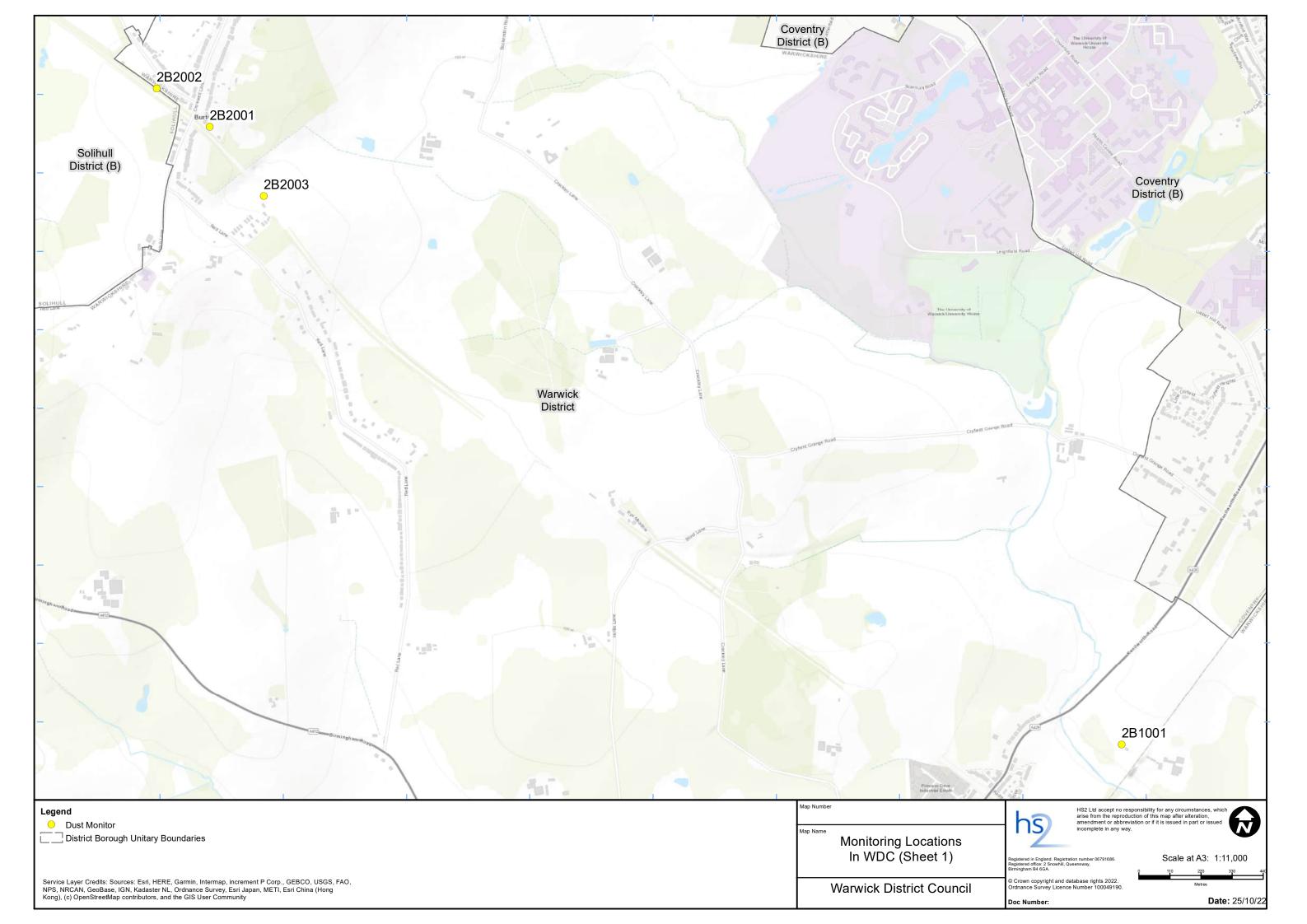
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- Reinforcement to wall test panel at Fosse Way Compound.
- Construct Fosse Way Plant crossing transition slab.
- Construct RC tipping slab to Road head at Fosse Way.
- Construct RC slab for Jet wash area to Road Head.

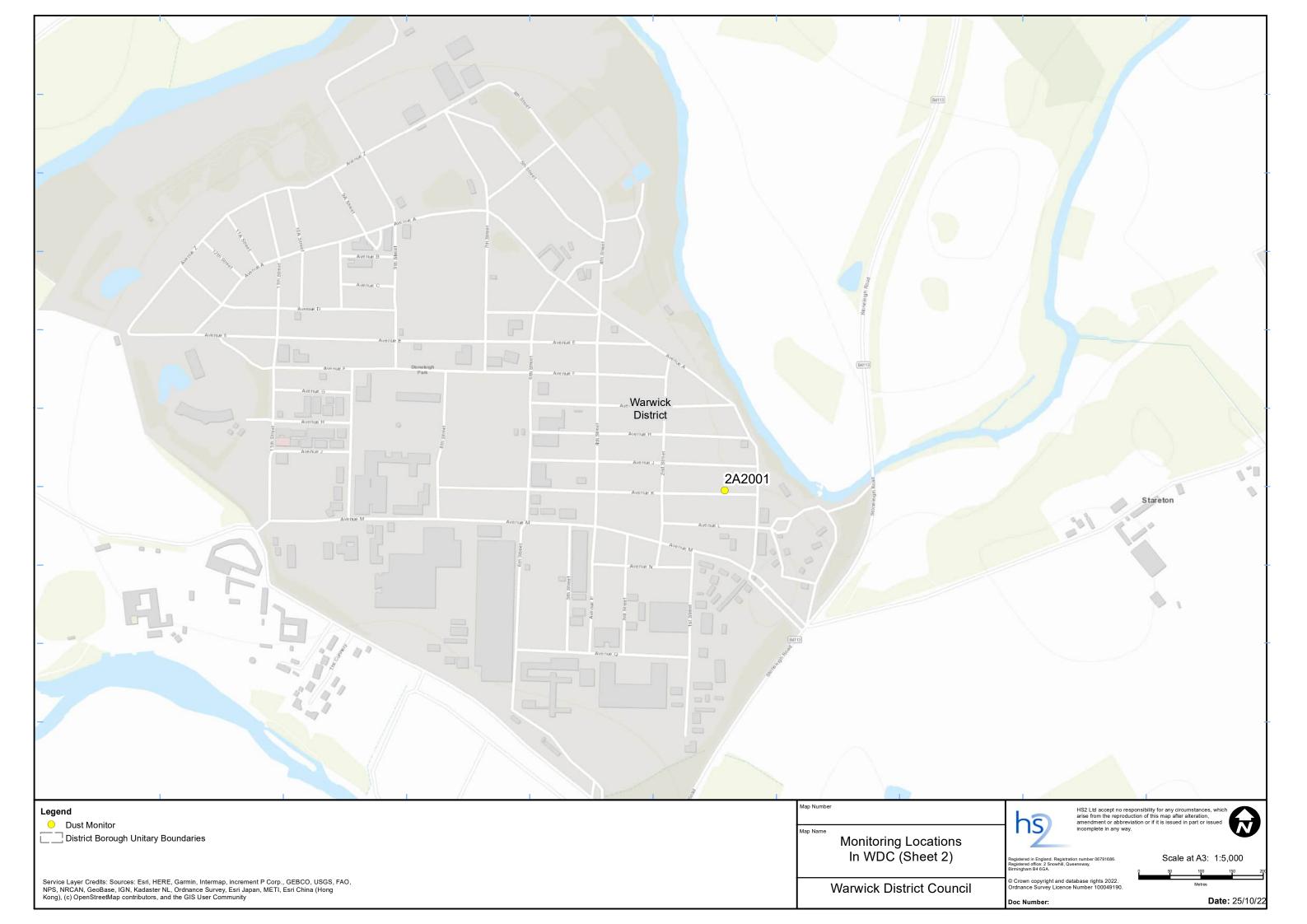
#### A429 Kenilworth Road Overbridge (Sublot 2B1)

- Utilities works.
- Earthworks with excabators and ADT.
- Murphys installation fence for farmer.
- 1.1.5 Eight (8) dust monitors are installed at worksites, where works are underway. These sites returned a medium dust risk rating.
- 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 monitors 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 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 Data capture was below 90% for multiple monitors due to battery swap outs for power supply issues and removal of erroneous data.
- 1.1.9 There were no (0) dust trigger alerts recorded during the monitoring period (March 2023).
- 1.1.10 There were no (0) complaints received during this reporting period (March 2023).

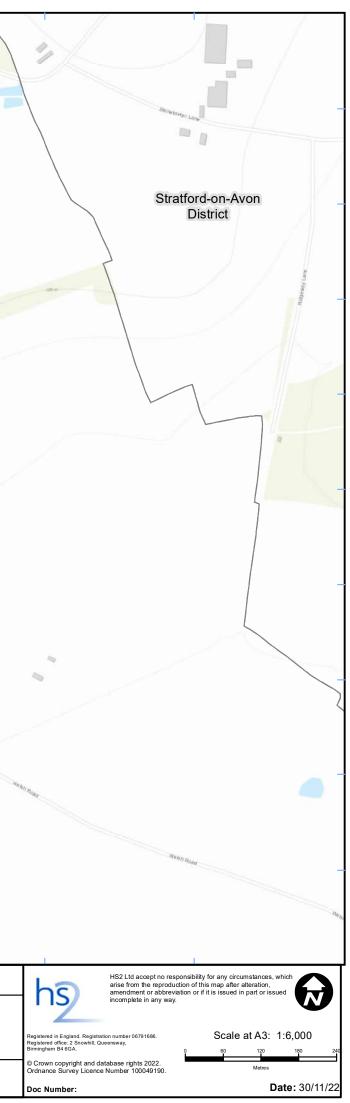
## **Appendix A – Worksites and Monitoring Locations**

Figures 1 to 3: Worksites and Monitoring Locations within the WDC





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| C Dust Monitor   | Map Number                               |
| District Borough Unitary Boundaries  | Map Name<br>Monitoring Locations         |
|  | Monitoring Locations<br>In WDC (Sheet 3) |
| Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO,   | Warwick District Council                 |
| Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO,<br>NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong<br>Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community |  |



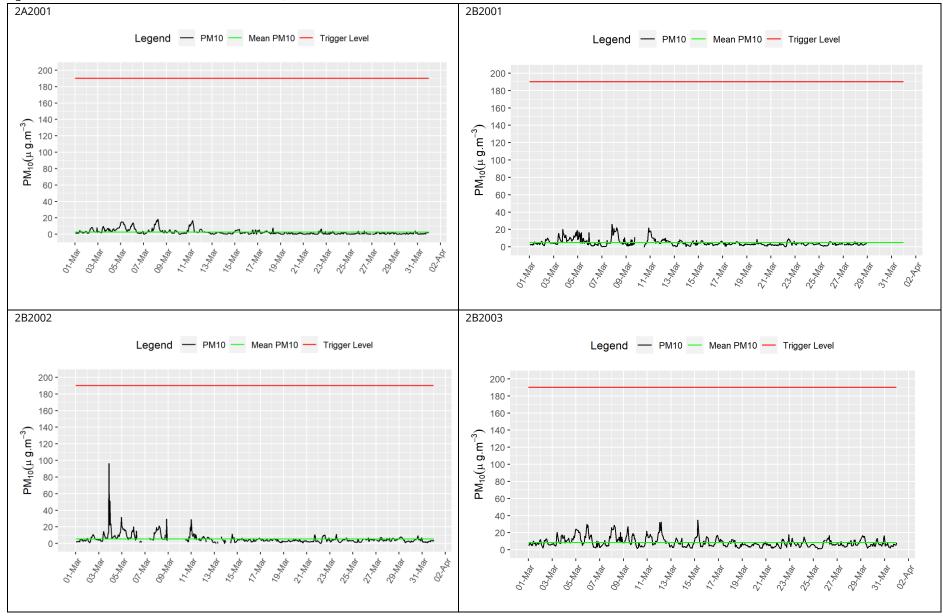
### **Appendix B – Dust Monitoring Results**

Table 1: Dust Monitoring Locations and March 2023 Results

| Monitoring<br>site ID | Coordinates<br>(X,Y) | Location description   | Dust<br>risk<br>rating<br>for<br>site | Monitoring<br>site active<br>during<br>period | Change<br>to site<br>since<br>previous<br>period<br>report | Mean 1-hour<br>PM <sub>10</sub><br>concentration<br>(μg/m³) | Minimum 1-<br>hour PM <sub>10</sub><br>concentration<br>(μg/m³) | Maximum 1-<br>hour PM <sub>10</sub><br>concentration<br>(μg/m³) | Number of 1-<br>hour periods<br>exceeding<br>trigger level<br>of 190 µg/m <sup>3</sup> | Data<br>capture<br>(%) |
|-----------------------|----------------------|--|---------------------------------------|---|--|---|---|---|--|------------------------|
| 2A2001                | 432798,<br>271434    | East Lodge, Stoneleigh Park                                      | М                                     | Yes   | No   | 2.6   | 0.1   | 18.4  | 0  | 94.1                   |
| 2B2001                | 426960,<br>275882    | Sublot 2B2, at nearest<br>sensitive receptor on<br>Cromwell Lane | М                                     | Yes   | No   | 4.3   | 0.1   | 25.9  | 0  | 87.9                   |
| 2B2002                | 426772,<br>276017    | Sublot 2B2, at nearest<br>sensitive receptor on<br>Hodgetts Lane | М                                     | Yes   | No   | 5.4   | 0.1   | 96.4  | 0  | 90.1                   |
| 2B2003                | 427151,<br>275637    | Sublot 2B2, at Broadwell<br>Woods Caravan Park                   | М                                     | Yes   | No   | 8.6   | 1.0   | 34.7  | 0  | 99.7                   |
| 2B1001                | 430183,<br>273698    | Sublot 2B1, at Brookview<br>Farm, Millburn Grange                | М                                     | Yes   | No   | 5.5   | 0.1   | 28.1  | 0  | 99.7                   |
| 2AS001                | 437574,<br>264500    | Sublot 2AS, at Welsh Road<br>Farm                                | М                                     | Yes   | No   | 5.4   | 0.1   | 46.1  | 0  | 99.7                   |
| OC001                 | 437111,<br>265242    | Springhill Cottages, Offchurch<br>Cutting                        | М                                     | Yes   | No   | 6.3   | 0.3   | 42.8  | 0  | 99.7                   |
| CUB001                | 434124,<br>270273    | Sublot 2A2, at Furzon Hill<br>Cottages                           | М                                     | Yes   | No   | 0.5   | 0.1   | 6.7   | 0  | 69.1                   |

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