

Air Quality and Dust Monitoring Monthly Report – May 2025

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 within Warwick District Council (WDC) during May 2025.
- 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

- Earthworks movements and excavations.
- Haul road medials to greenway footpath diversion.

Cubbington Compound Worksite

- Earthworks movements and excavations
- Haul road medials to greenway footpath diversion.

Burton Green Tunnel (Sublot 2B2)

- Breaking piles for Cromwell Lane realignment
- Base slab and steel fixing works.

Welsh Road Underbridge Satellite Compound (Sublot 2AS)

Offchurch Cutting – Welsh Road Farm

- Earthworks movements for cutting.
- Dust suppression.
- Lime stabilisation.

Offchurch Cutting – Valley Fields

- Installation of permanent drainage pipes and manholes at River Leam Embankment.
- Bulk Earthworks to River Leam Embankment area.

- Dig, replacement and soil stabilisation to Ash beds cutting.
- Excavation of crane platforms to W129 footbridge.
- Backfill and testing works to new sewer (Severn Trent) north of Hunningham Road.
- Hunningham Road Overbridge beam installation and commencing of deck edge protection and formwork.
- Hunningham Road – Vegetation Clearance.
- Hunningham Road – Duct installation for Utility British Telecoms (BT) diversion along road verge.
- Earthworks movements for cutting.
- Dust suppression.
- Haul road maintenance.

Offchurch Cutting – Brickyard Cottage

- Deliveries and transport between sites
- Adhoc landscaping

A429 Kenilworth Road Overbridge (Sublot 2B1)

Kenilworth Road Overbridge – Millburn Grange

- Structure work for the overbridge
- Kenilworth south landscape fill
- Ongoing backfilling activities
- Installation of flywall on deck.

Kenilworth Road Overbridge - Brookview

- A429 realignment work including technical backfill, drainage and earthworks.

Kenilworth Road Overbridge – 16 Kenilworth Road

- Realignment works
- Excavation works using Vac-ex machine.

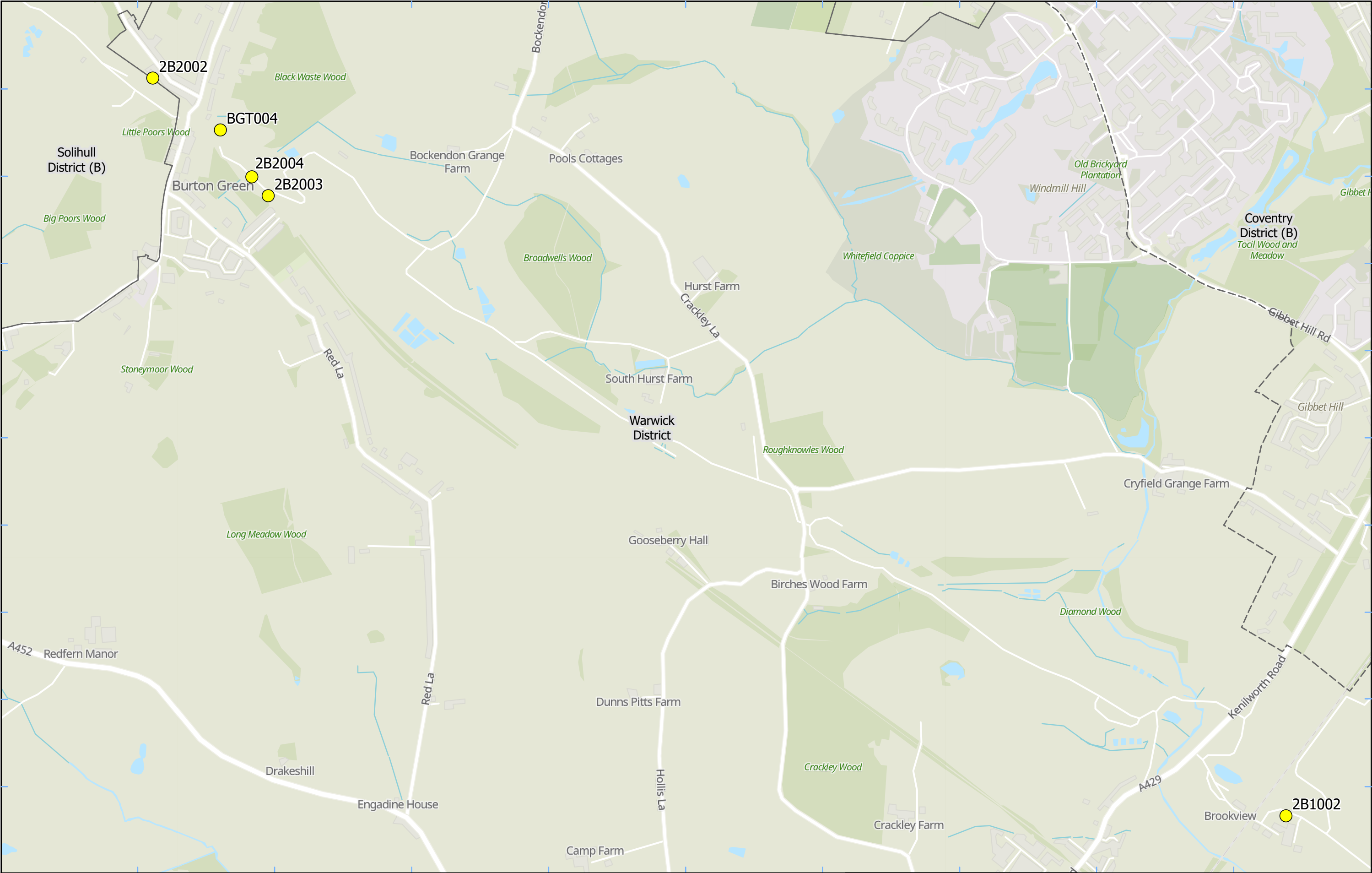
1.1.5 Twelve (12) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.

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.

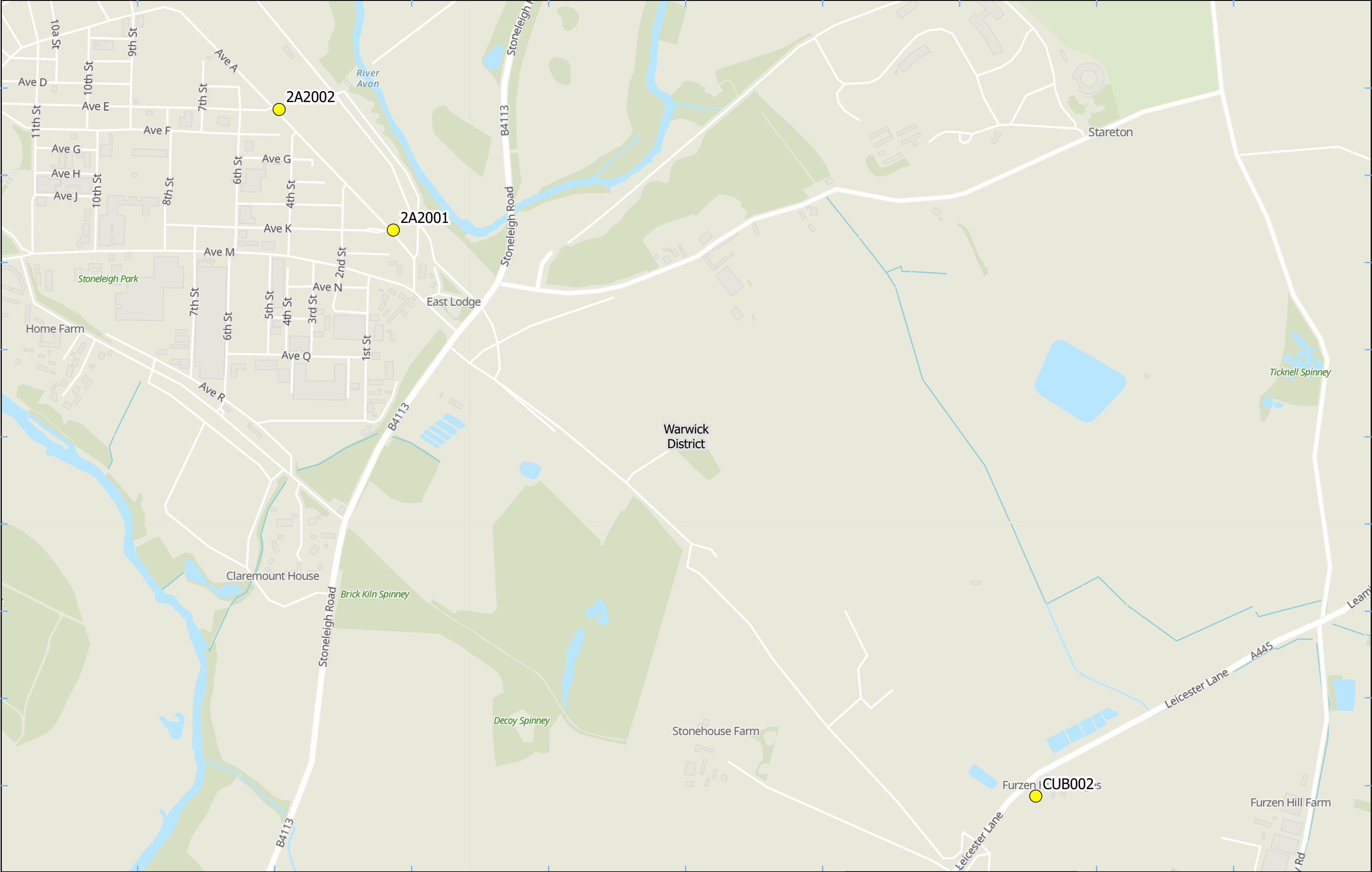
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.
- 1.1.8 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor 2B2003 – A fault investigation site visit was done on 1st May 2025, a battery refresh was done on 27th May 2025, and a field calibration was done on 9th June 2025. A site visit is to be scheduled to resolve the power supply issues.
 - Monitor 2B1002 – A monitor swap out was done on 23rd May 2025, and a field calibration was done on 9th June 2025. After these site visits, the monitor issues were resolved.
- 1.1.10 There were no (0) complaints received during the reporting period (May 2025).

Appendix A – Worksites and Monitoring Locations


Figures 1-3: Worksites and Monitoring Locations within WDC




Legend  Dust Monitor  District Borough Unitary Boundaries <small>Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025 Contains data from OS Zoomstack</small>	Map Number	 <small>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 2025. Ordnance Survey Licence Number 100049190.</small>	 Scale at A3: 1:11,000  Metres
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	Warwick District Council	Doc Number:	Date: 02/04/25



Legend

 Dust Monitor

 District Borough Unitary Boundaries


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Map Number

Map Name

Monitoring Locations
In WDC (Sheet 2)

Warwick District Council




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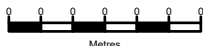
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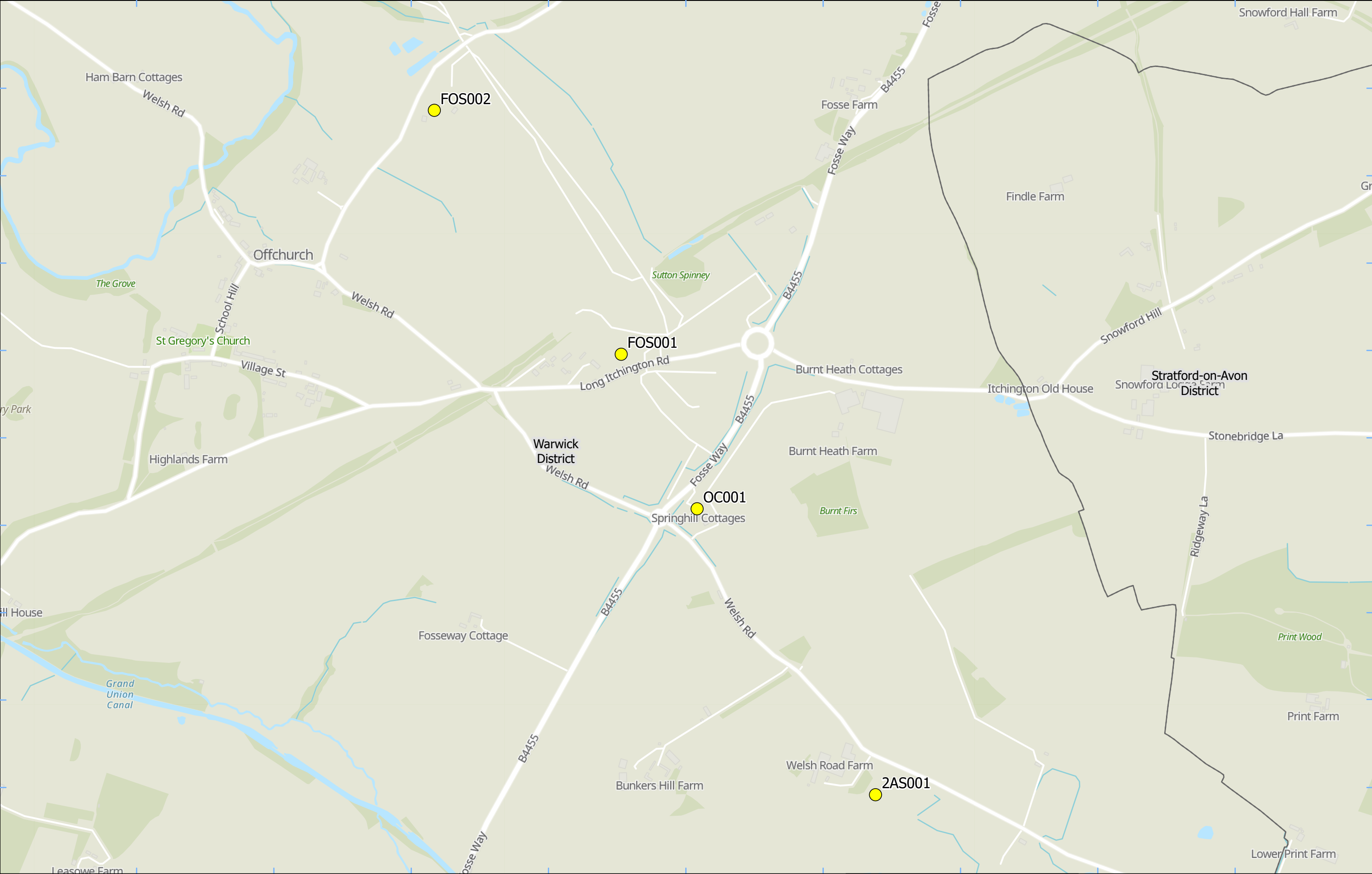
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Metres




Legend

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number
Map Name
Monitoring Locations In WDC (Sheet 3)
Warwick District Council




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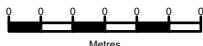
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Metres

Date: 26/09/24

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	432797, 271427	East Lodge, Stoneleigh Park	M	Yes	No	9.1	0.1	121.6	0	100.0
2A2002	432566, 271671	East Lodge, Stoneleigh Park	M	Yes	No	8.5	0.7	33.2	0	100.0
2B2002	426768, 276023	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	6.9	0.6	57.5	0	100.0
2B2003	427135, 275649	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	7.6	0.1	68.4	0	70.0
2B2004	427083, 275709	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	4.5	0.1	221.7	1	97.4
2B1002	430371, 273678	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	2.6	0.1	17.3	0	27.0
2AS001	437578, 264581	Sublot 2AS, at Welsh Road Farm	M	Yes	No	9.7	1.0	54.4	0	100.0
OC001	437205, 265256	Springhill Cottages, Offchurch Cutting	M	Yes	No	6.9	0.5	30.4	0	100.0
CUB002	434097, 270282	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	3.9	0.1	37.1	0	98.9
FOS001	436912, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	9.2	0.2	107.3	0	100.0
FOS002	436506, 266235	Valley Fields, Fosse Way Main	L	Yes	No	9.2	0.2	49.1	0	100.0
BGT004	426983, 275858	301 Cromwell Lane, Burton Green	M	Yes	No	8.6	0.4	60.7	0	100.0

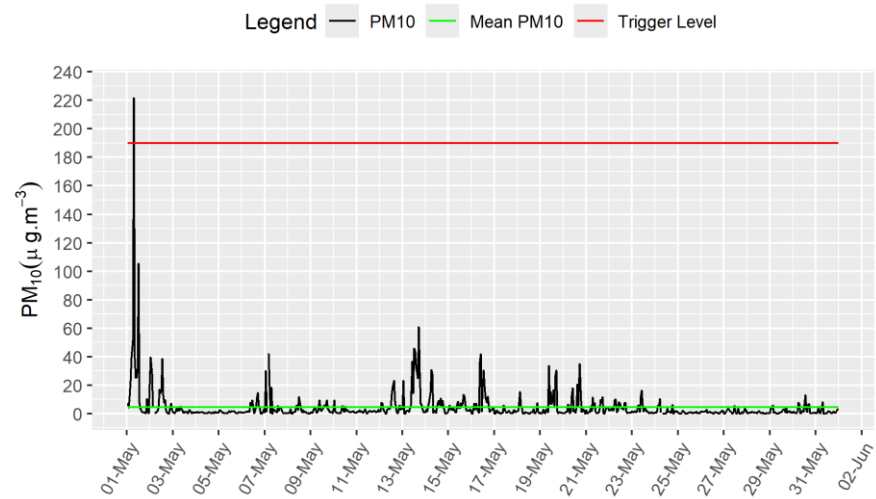
Table 2: Summary of exceedances during period (May 2025)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
2B2004	01/05/25: 06:01 - 07:00; 221.7 $\mu\text{g m}^{-3}$	Exceedances occurred outside of working hours on site, so thought to not be a result of site activities.	N/A

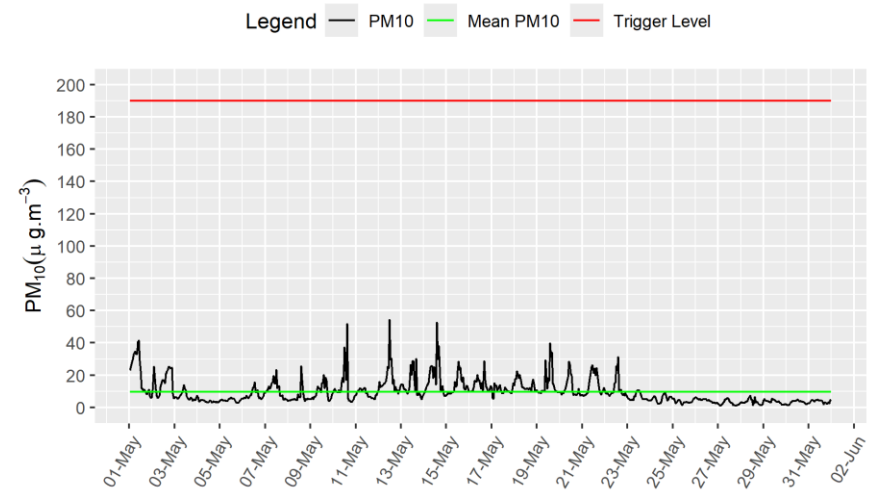
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



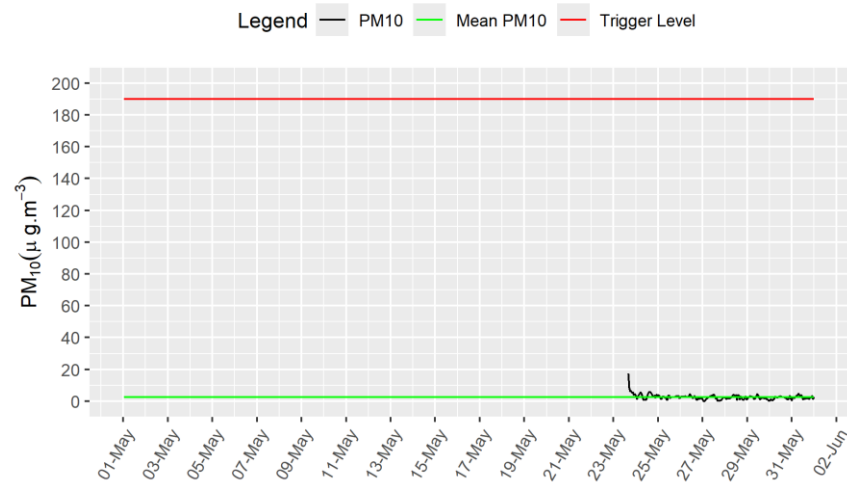
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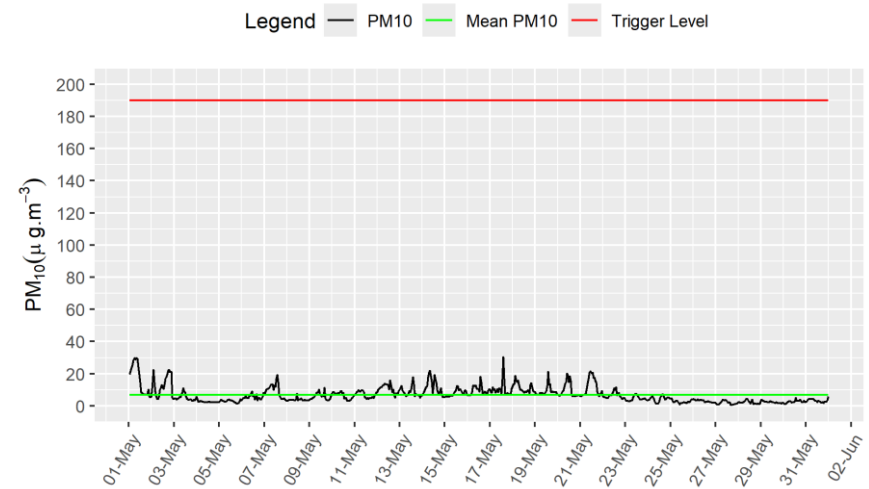
2AS001



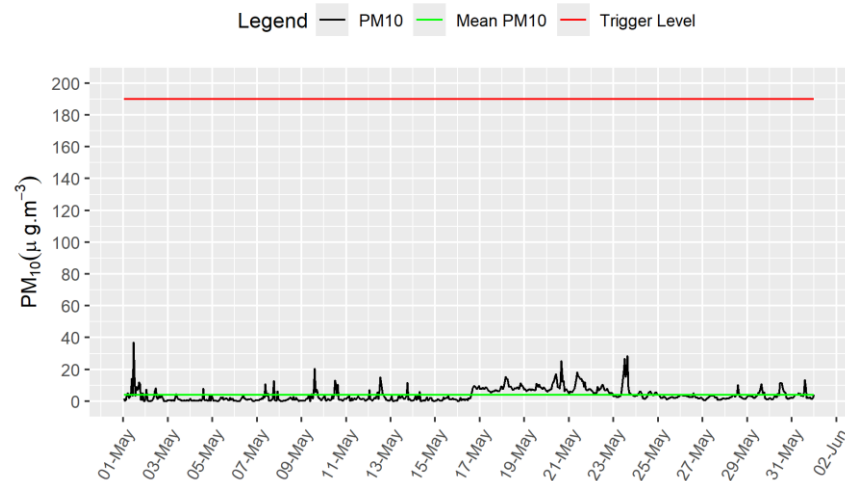
2B1002



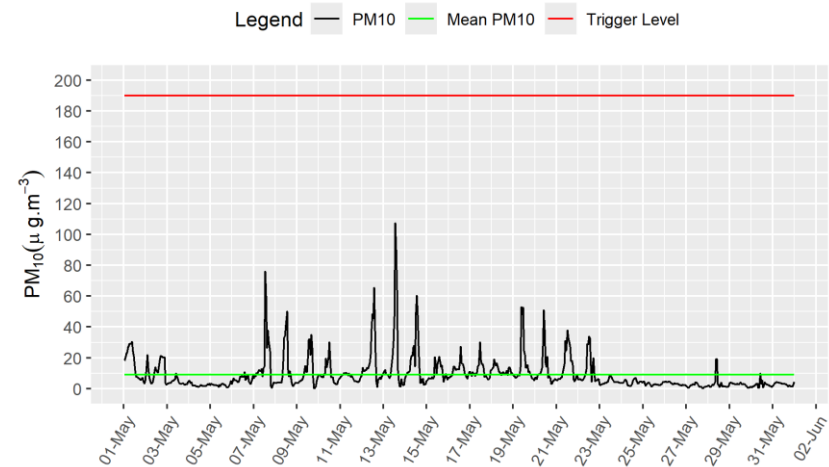
OC001



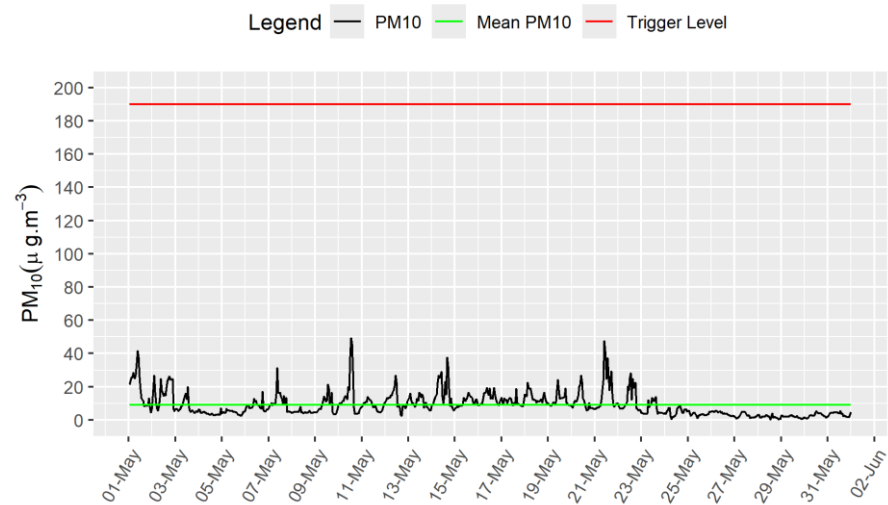
CUB002



FOS001



FOS002



BGT004

