

Air Quality and Dust Monitoring Monthly Report – February 2025

Warwick District Council



Department for Transport

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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 February 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

- Operation of Roadhead at Fosse Way Compound.
- Temporary works platforms and bulk excavation by earthworks for Greenway Green Bridge.
- Base (abutment AB0) reinforcement, formwork and concrete to Offchurch Green Bridge.
- Base (abutment Pier 1 and Pier P2) reinforcement and formwork.
- Reinforcement to Pier 2 and concrete to pier at Fosse Way Overbridge.
- Reinforcement, formwork and concrete to Abutment / Wingwall AB4 at Fosse Way Overbridge.
- Reinforcement, formwork to wingwalls AB0 at Fosse Way Overbridge.
- Concrete finishing and remedials to abutments and concreting of bearing base plates at Fosse Way Overbridge.
- Trial holes and ecological and topo surveys around Welsh Road crossroads for new underpass.
- Maintenance of haul roads and footpaths around Fosse Way Overbridge.
- Fosse Way Overbridge – Rig up 650 tonne crane.
- Fosse Way Overbridge – Installation of beams and edge protection / scaffold.
- Fosse Way Overbridge – Lifting (relocation) of cabins and skips.
- Haul Road plant crossing in operation at Long Itchington Road.
- Hera fencing remedials to Greenway footpath diversion.

Stoneleigh Park– East Lodge

- Mobilisation of satellite compounds.
- Installation of site access points and plant crossings.
- Installation of temporary drainage.
- Haul route construction.
- Excavation of flood compensation area.
- Contestable utility diversion, removal and protection.
- General site duties.
- Installation of temporary including hoardings.
- Earthworks.
- Structures.

Burton Green Tunnel (Sublot 2B2)

- Tunnel excavation and repair works.

Welsh Road Underbridge Satellite Compound (Sublot 2AS)

Offchurch Cutting – Welsh Road Farm

- Formwork and false work installation.
- Concrete pour.
- Housekeeping.
- V-ditch cleaning.
- Strimming.

Offchurch Cutting – Valley Fields

- Installation of permanent drainage pipes and manholes at River Leam Embankment.
- Bulk Earthworks to River Leam Embankment area.
- Dig and replace and soil stabilisation to Ash Beds Cutting.
- Excavation of crane platforms to W129y footbridge.
- Backfill and testing works to new sewer (Severn Trent) north of Hunningham Road.
- Hunningham Road Overbridge beam installation and commence deck edge protection and formwork.
- Hunningham Road – Vegetation clearance.
- Hunningham Road – Duct installation for utility; British Telecoms (BT) diversion along road verge.

A429 Kenilworth Road Overbridge (Sublot 2B1)

- North Abutment wall – Concrete cure, strike formwork, post pour inspection, reinforcement, and remove scaffold.
- Canley Brook Replacement Flood Storage – Vegetation clearance, subsoil strip, excavation to formation, ditch + pools and bank work, and subsoil replacement.
- Cut / fill earthworks to piers, abutments and crane platforms (remaining fill to stockpile).

- Pier, abutments and crane platform fill.
- Haul road construction.
- Abutments and piers dig and replace cut.

1.1.5 Eleven (11) 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 2025).

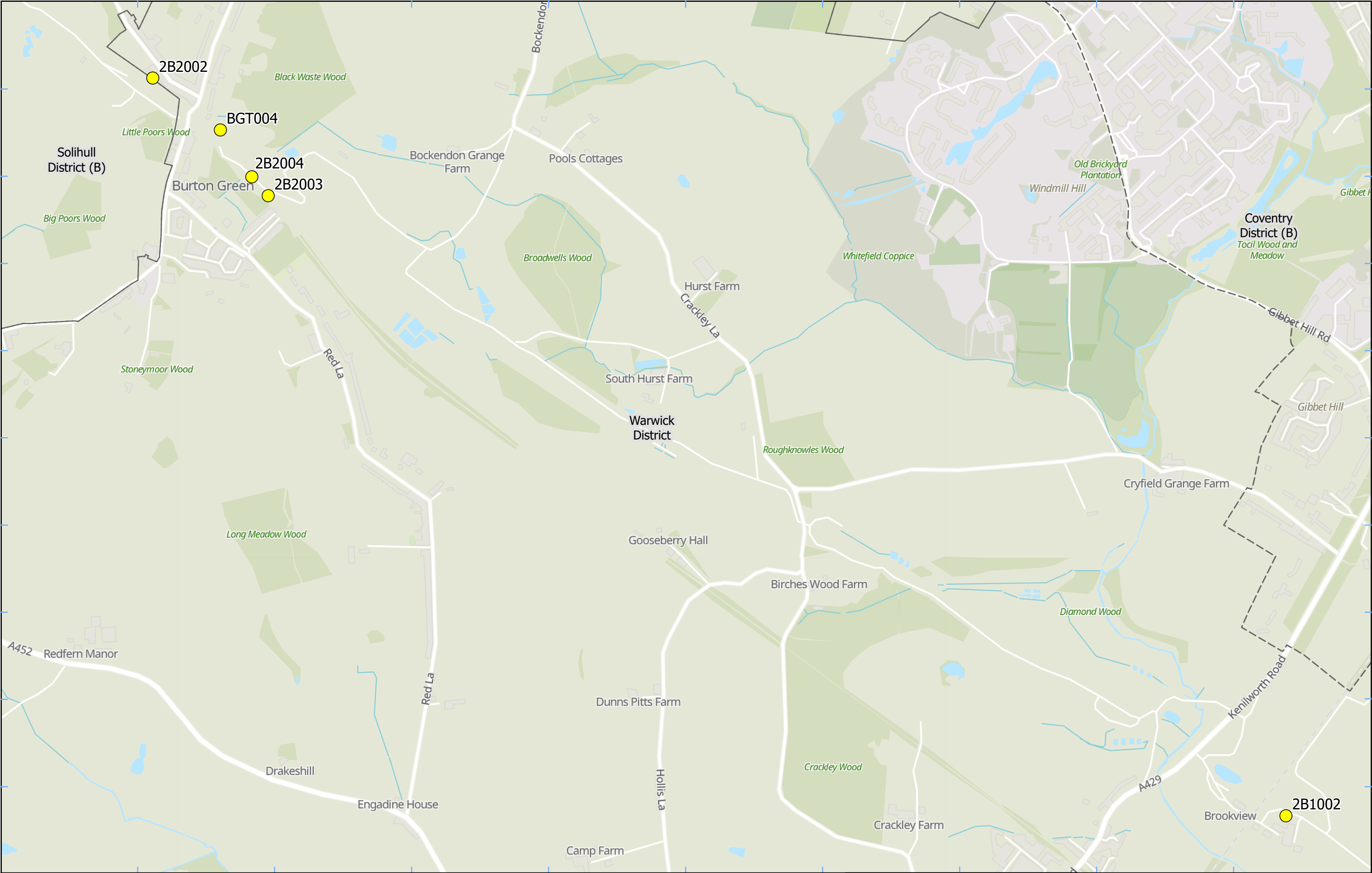
1.1.9 Data capture was below 90% for multiple monitors due to:

- Monitor 2A2002 – A battery cable was replaced on 18th February 2025. After this site visit, the power supply issues were resolved.
- Monitor 2B1002 – A battery refresh was done on 27th February 2025. After this site visit, the power supply issues were resolved.
- Monitor 2B2002 – A battery refresh was done on 3rd February 2025. After this site visit, the power supply issues were resolved.
- Monitor 2B2003 – Battery refreshes were done on 13th February 2025 and 27th February 2025. After these site visits, the power supply issues were resolved.
- Monitor 2B2004 – The monitor was only installed and commissioned on 13th February 2025.
- Monitor FOS001 – A battery refresh was done on 6th February 2025, and a field calibration was done on 28th February 2025. After these site visits, the power supply issues were resolved.
- Monitor CUB002 – there was a data loss due to the monitor not being moved from D1 to D2 on the LivEnviro website until 3rd February 2025 when the monitor was moved on 16th January 2025. A battery refresh and field calibration were done on 3rd February 2025.
- Monitor FOS002 – a lab calibration swap out was done on 28th February 2025. After this site visit, the monitor issues were resolved.
- Monitor BGT004 – a field calibration is scheduled for 10th March 2025.

1.1.10 There were no (0) complaints received during the reporting period (February 2025).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within WDC

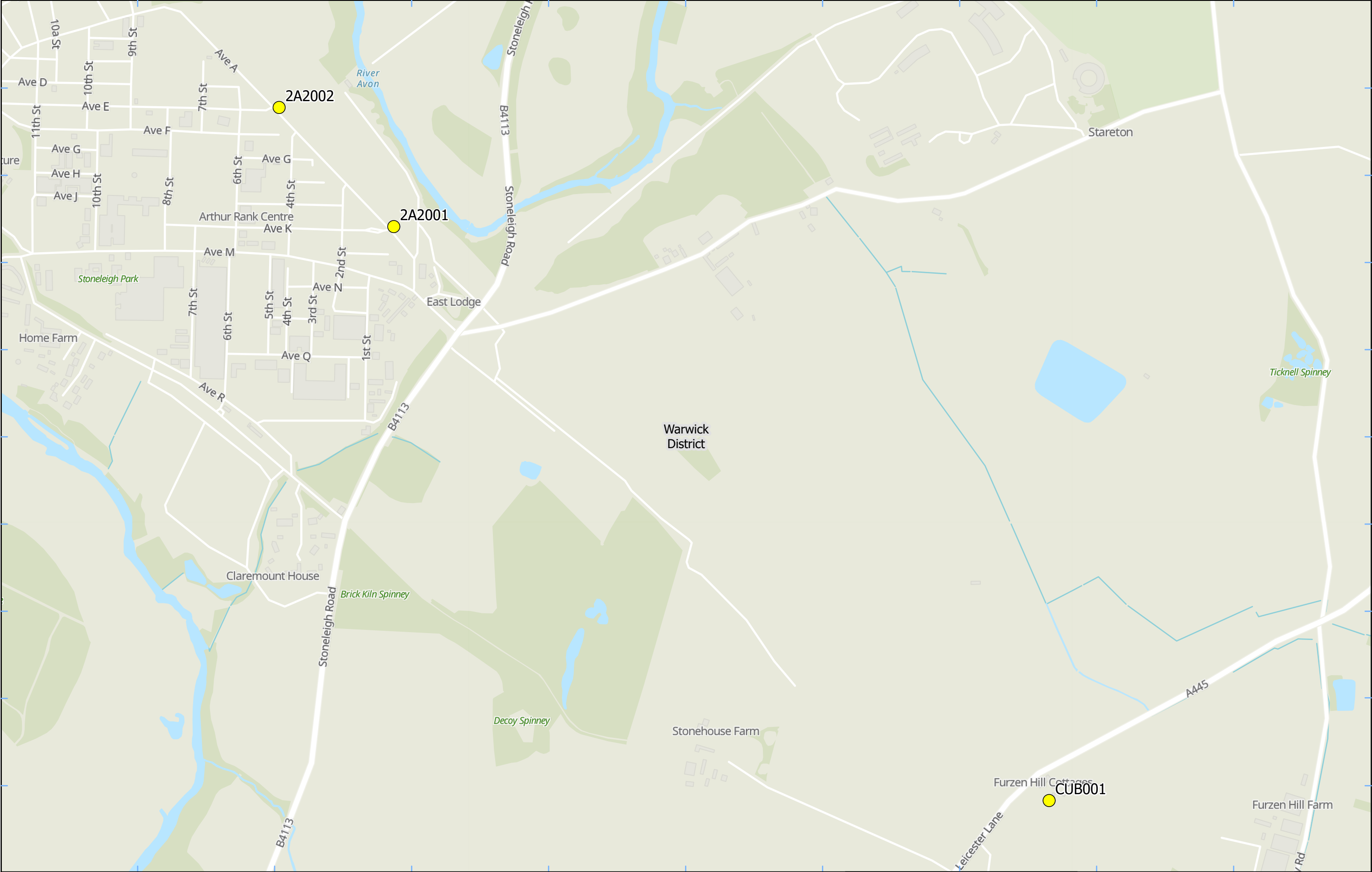


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	Map Name	
	Monitoring Locations In WDC (Sheet 1) Warwick District Council	

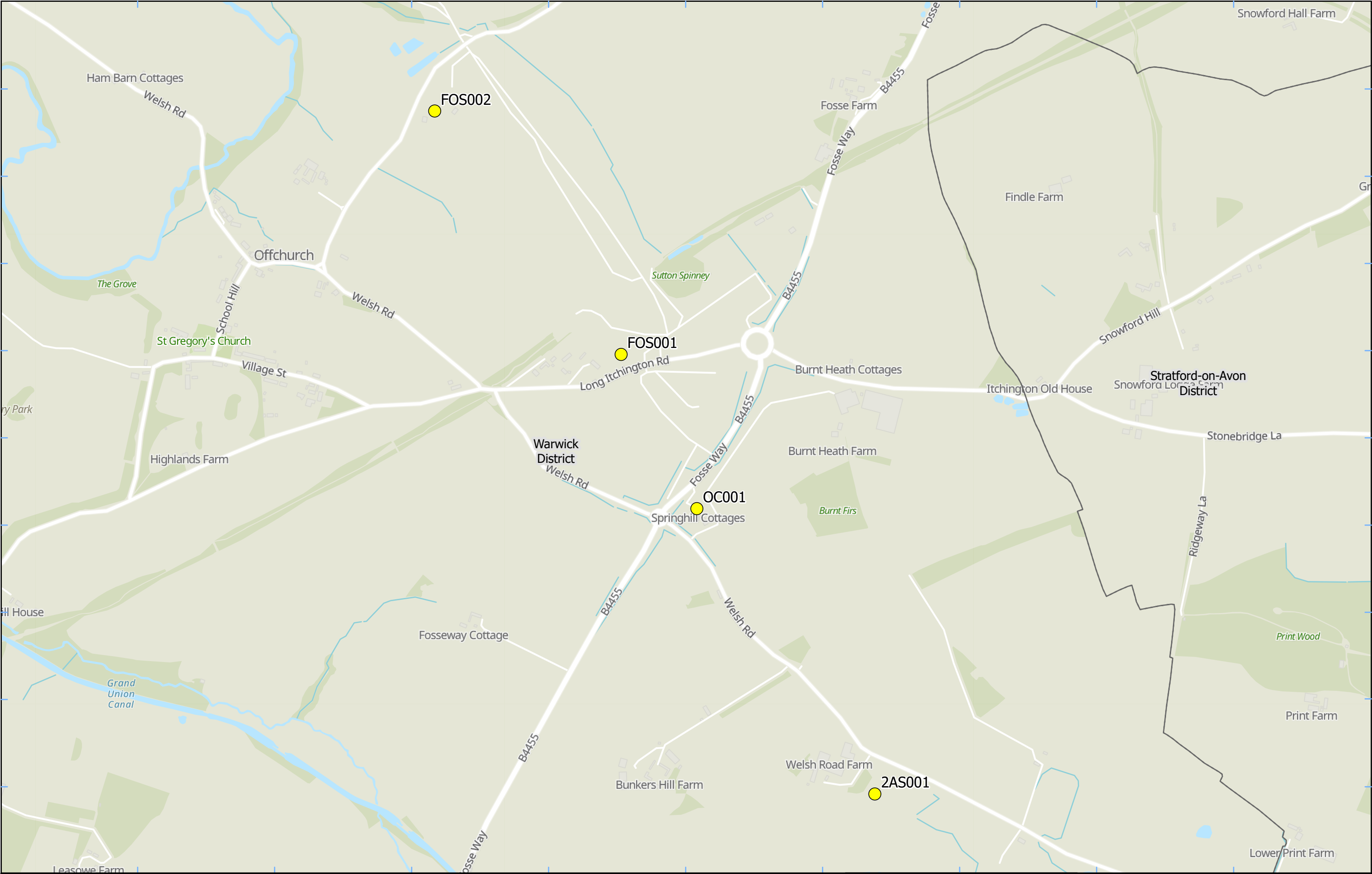
Scale at A3: 1:11,000

Metres

Date: 02/04/25



Legend <div><div></div> Dust Monitor</div> <div><div></div> District Borough Unitary Boundaries</div> <div><small>Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023 Contains data from OS Zoomstack</small></div>	Map Number	<div><div><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.</small></div></div> <div><small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small></div> <div><small>© Crown copyright and database rights 2024. Ordnance Survey Licence Number 100049190.</small></div> <div>Doc Number:</div>
	Map Name	
	Warwick District Council	<div><div>Scale at A3: 1:7,000</div><div><div></div><div>Metres</div></div><div>Date: 26/09/24</div></div>



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	Map Name Monitoring Locations In WDC (Sheet 3)	
	Warwick District Council	Scale at A3: 1:9,000 Date: 26/09/24

Appendix B – Dust Monitoring Results

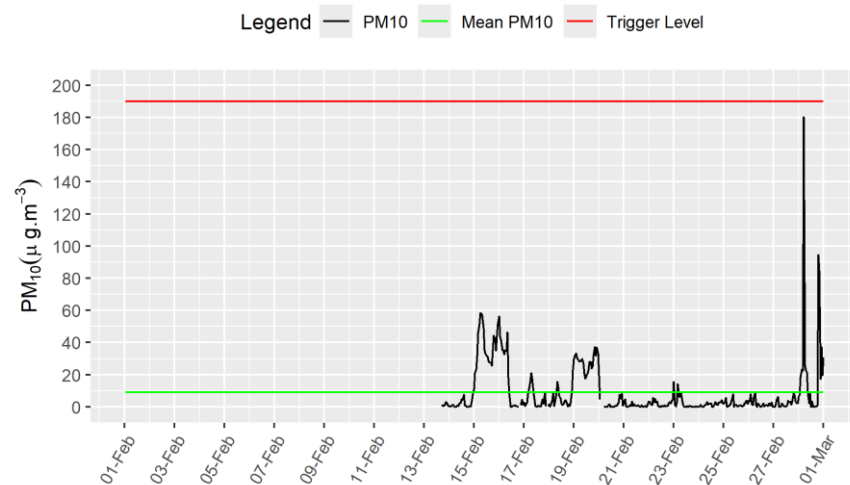
Table 1: Dust Monitoring Locations and Results

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	7.7	0.1	81.2	0	92.6
2A2002	432566, 271671	East Lodge, Stoneleigh Park	M	Yes	No	11.5	0.1	52.6	0	62.2
2B2002	426768, 276023	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	19.4	0.1	53.0	0	80.8
2B2003	427135, 275649	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	11.5	0.1	57.7	0	68.9
2B2004	427083, 275709	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	N/A	9.0	0.1	180.2	0	50.4
2B1002	430371, 273678	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	16.7	0.1	70.3	0	61.8
2AS001	437593, 264527	Sublot 2AS, at Welsh Road Farm	M	Yes	No	16.1	0.1	67.8	0	95.5
OC001	437205, 265256	Springhill Cottages, Offchurch Cutting	M	Yes	No	15.2	0.1	52.4	0	97.3
CUB002	434097, 270282	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	1.6	0.1	19.9	0	76.5
FOS001	436912, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	15.8	0.1	81.7	0	89.4
FOS002	436506, 266235	Valley Fields, Fosse Way Main	M	Yes	No	11.9	0.1	47.1	0	78.7
BGT004	426983, 275858	301 Cromwell Lane, Burton Green	M	Yes	No	15.3	0.2	49.9	0	91.1

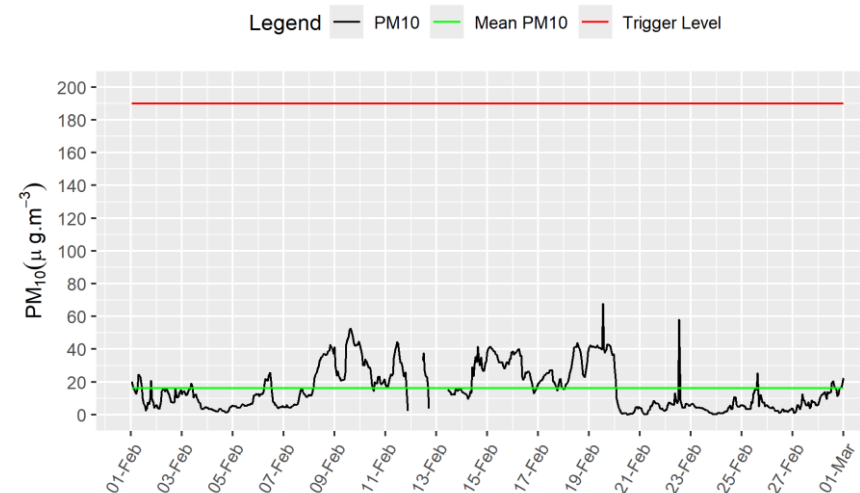
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



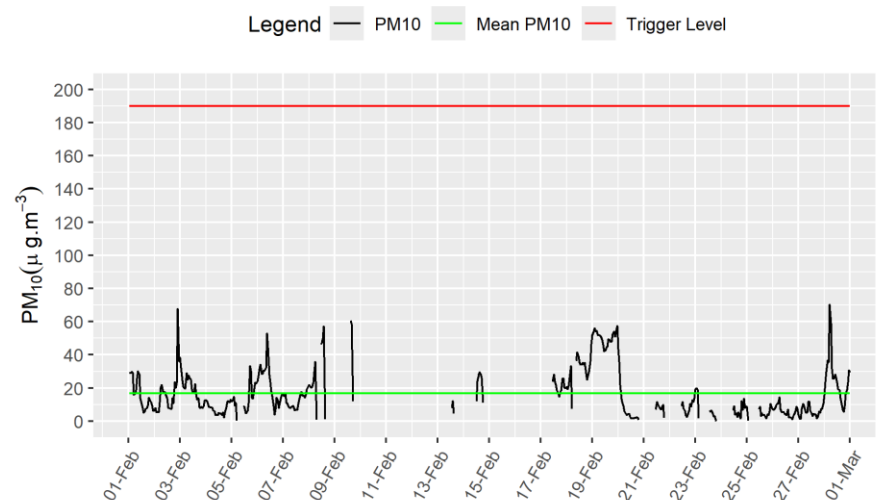
2B2004



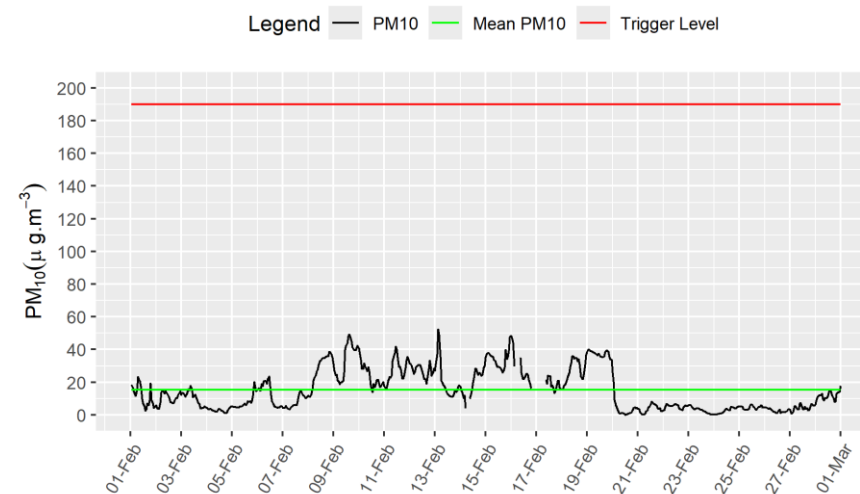
2AS001



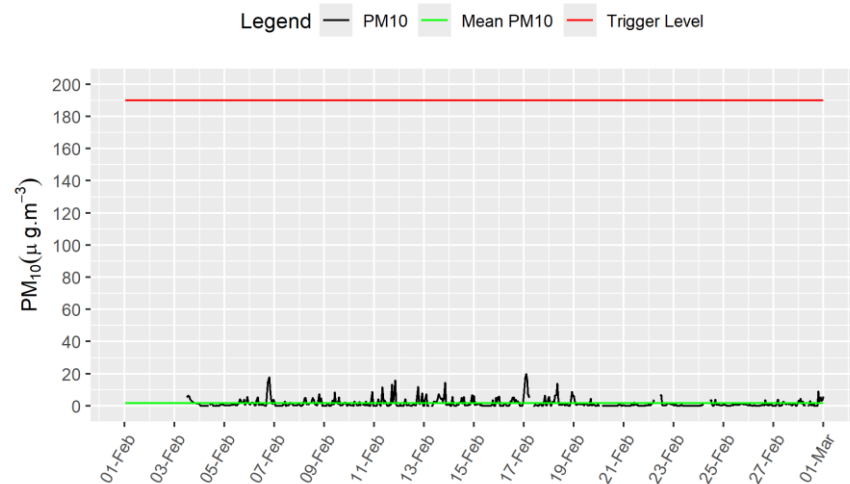
2B1002



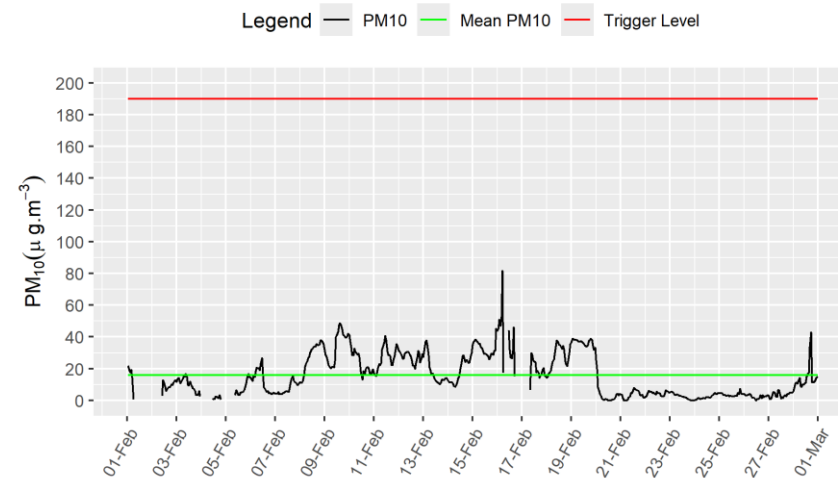
OC001



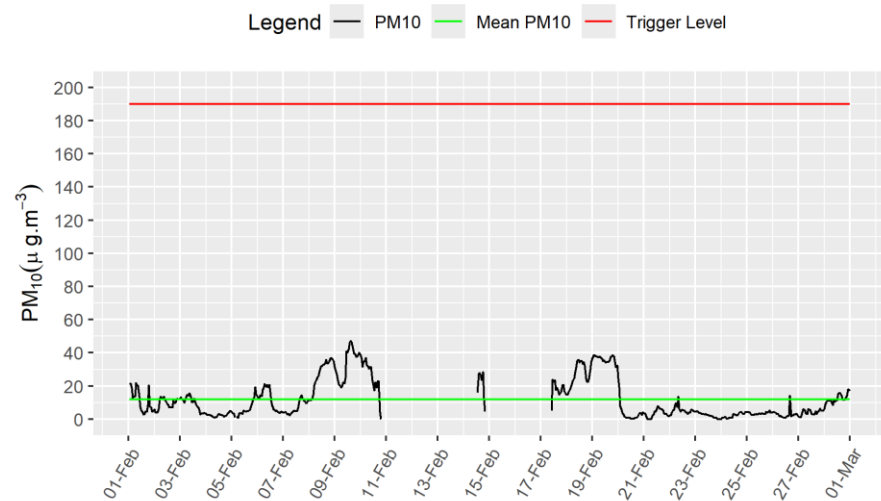
CUB002



FOS001



FOS002



BGT004

