

Air Quality and Dust Monitoring Monthly Report – June 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.

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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 June 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.
- Temporary works platforms and bulk excavation by earthworks for Greenway Green Bridge.
- Concrete blinding to east abutment base of Greenway Green Bridge.
- Base (abutment AB3) reinforcement to Offchurch Green Bridge.
- Realignment of haul roads around Greenway Green Bridge.

Stoneleigh Park – East Lodge

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

Cubbington Compound Worksite

- Formwork and False work installation.
- Concrete pour.

- Housekeeping.
- V-ditch cleaning.
- Strimming.

Burton Green Tunnel (Sublot 2B2)

- Tunnel excavation (using diggers).
- SB3 (joint venture of Bachy Soletanche and Balfour Beatty Ground Engineering) Hydrofraise piling works.
- Concrete pour.

Sublot 2AS

Offchurch Cutting – Welsh Road Farm

- Welsh Road Underbridge Strip wingwall 4.
- Strip falseworks to deck.
- Pour concrete to Wing wall 1B.
- Permanent drainage pipes and chambers to Grand Union Canal Embankment.
- Earthworks to Welsh Road alignment construction and commence laying capping stone layer.
- Install cofferdam frames at Canal (both sides).

Offchurch Cutting – Valley Fields

- Bulk earthworks to River Leam Embankment area.
- Install permanent drainage pipes at River Leam Embankment.
- Technical backfill to piers and abutments at Hunningham Road Overbridge.
- Trenching and backfill works to new sewer (Severn Trent) north of Hunningham Road.
- Haul road realignments to south side of Hunningham Road.
- Demobilise of plant and cabins by Severn Trent on completion of water main diversion.
- Construction of steel reinforcement and concrete to protection slab over sewer north of Hunningham Road.

A429 Kenilworth Road Overbridge (Sublot 2B1)

- Trench sheet installation.
- Excavation of sheet piling works.
- De-vegetation works in the area.

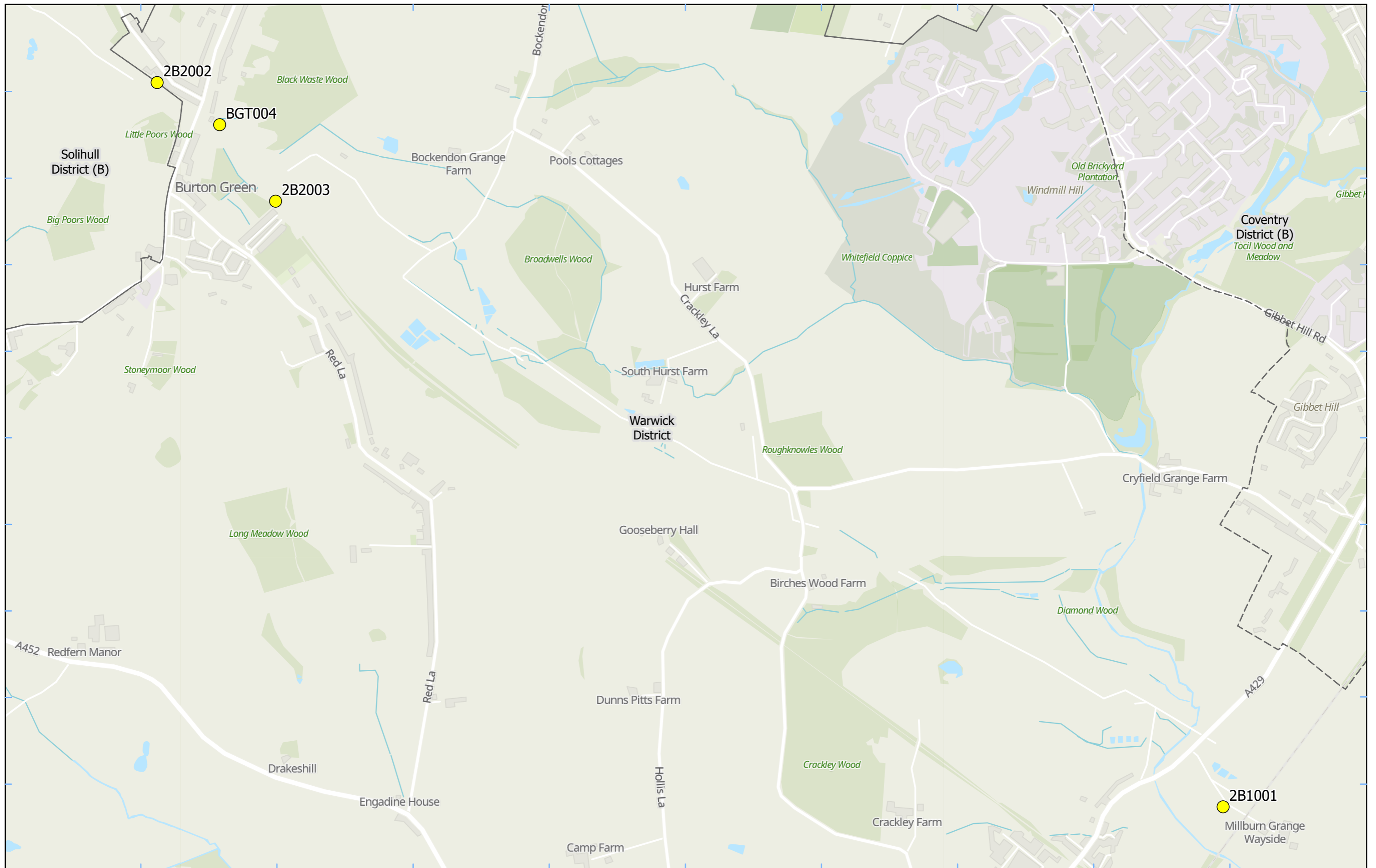
- 1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, presented 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 the 2B2002 monitor due to an issue with the monitor which was resolved by the monitor being swapped out on 11th June 2024, followed by a field calibration and battery refresh on 19th June 2024.
- 1.1.10 There were no (0) complaints received during the reporting period (June 2024).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within WDC



Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name
**Monitoring Locations
In WDC (Sheet 1)**

Warwick District Council

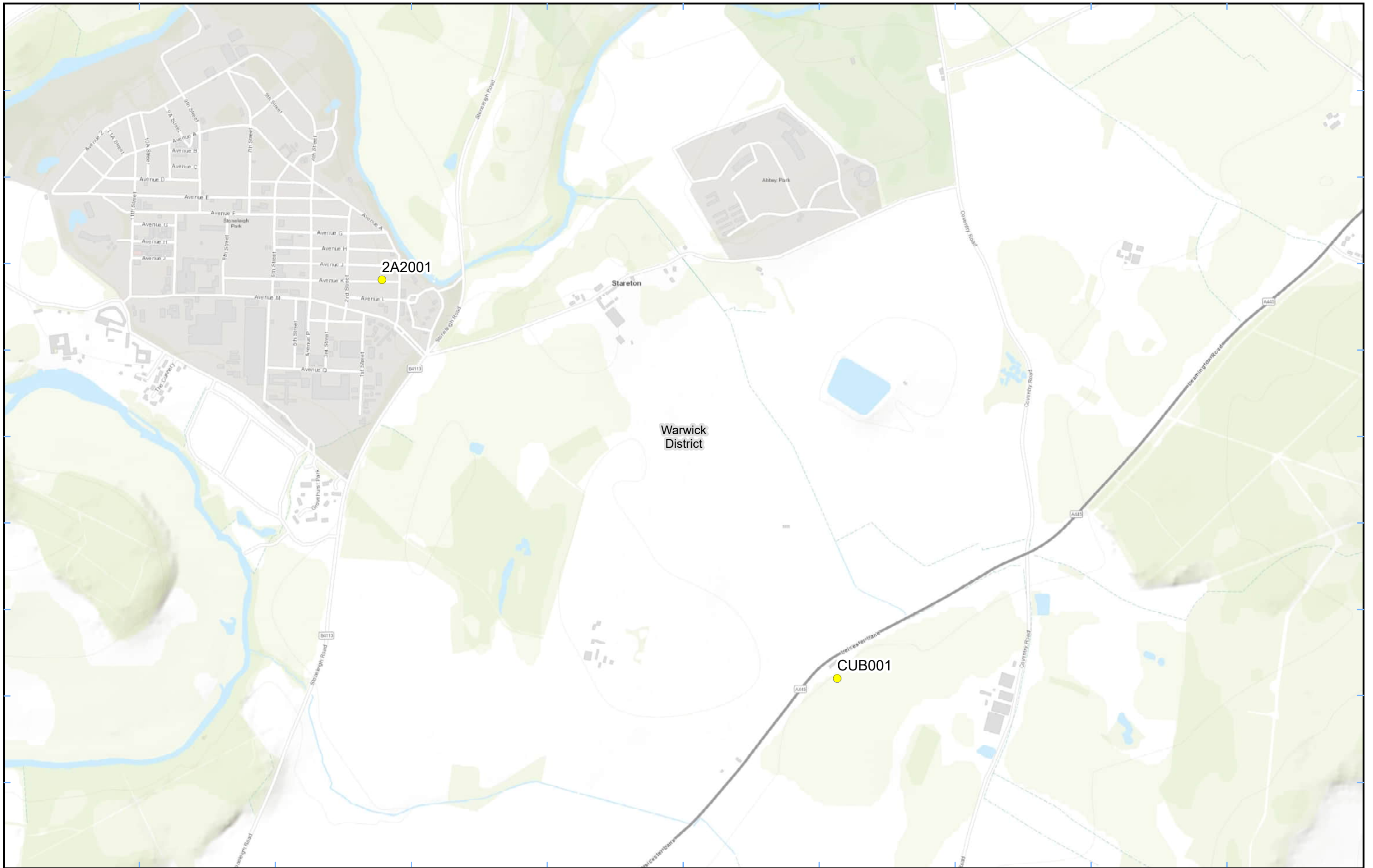
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Legend
 Dust
 District Borough Unitary Boundaries

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Map Number
 Map Name
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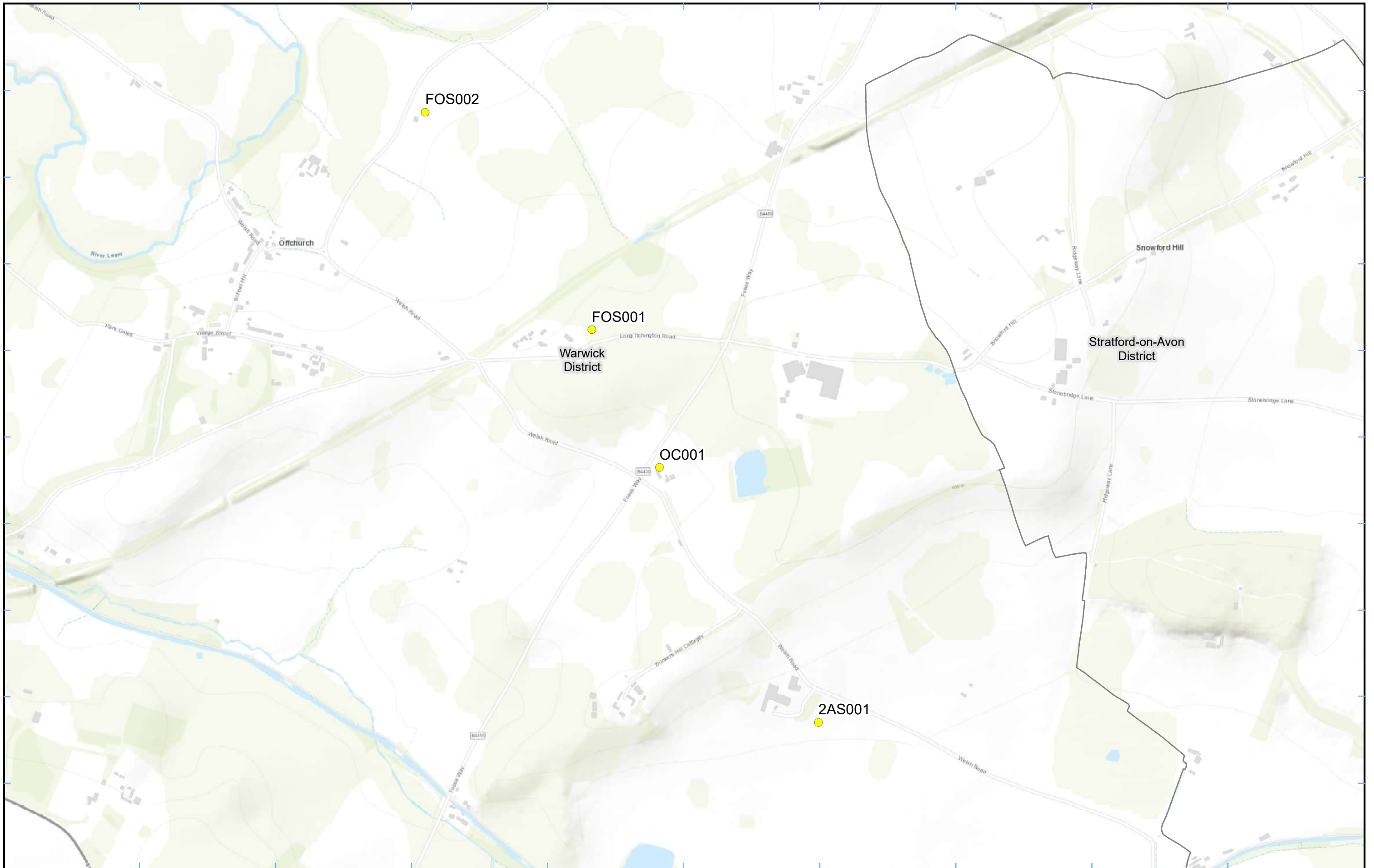
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Legend
 Dust
 District Borough Unitary Boundaries

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Map Number
 Map Name
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Appendix B – Dust Monitoring Results

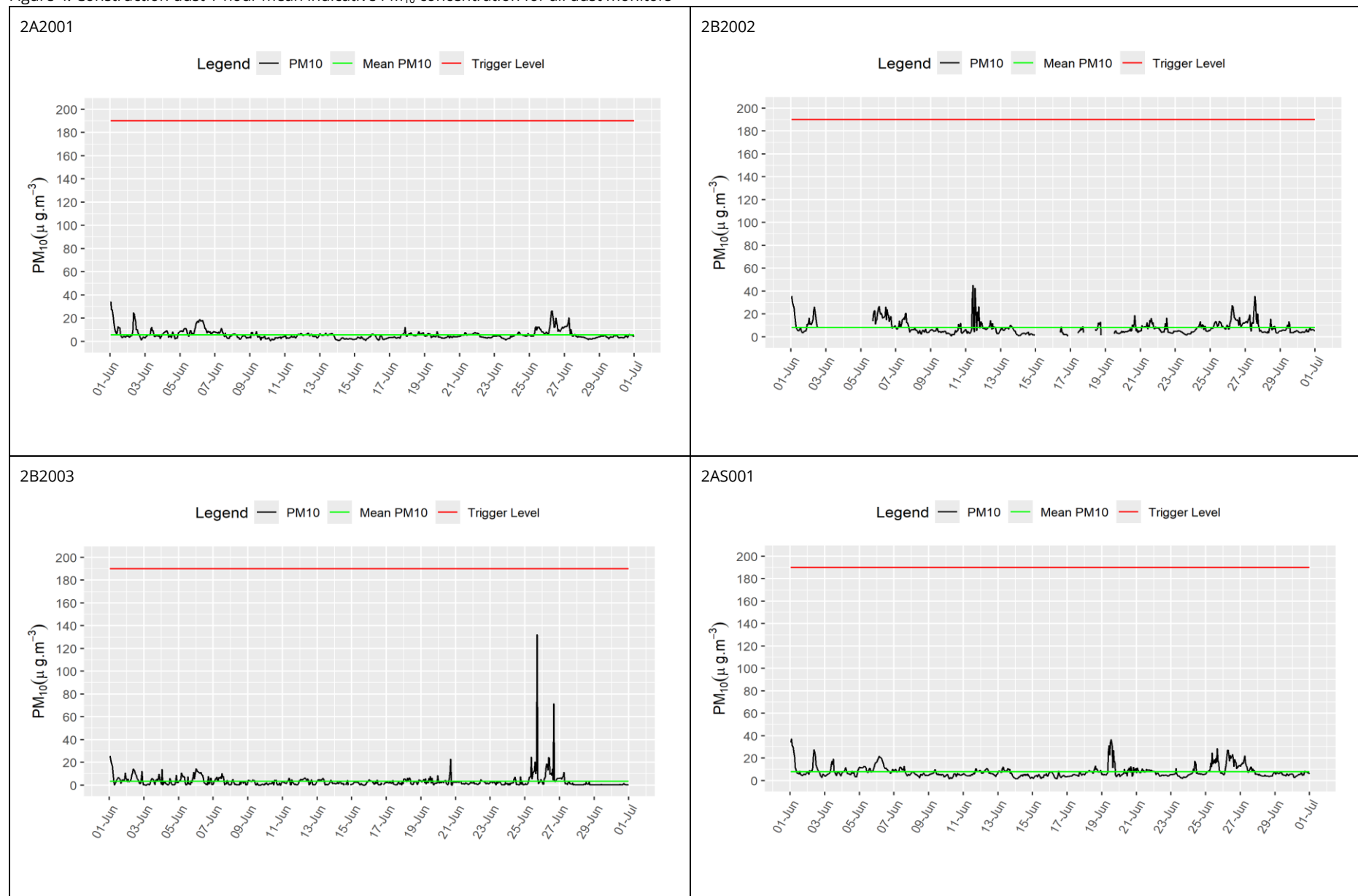
Table 1: Dust Monitoring Locations and Results

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	5.7	0.5	34.2	0	100.0
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	8.0	0.5	44.9	0	78.9
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	3.3	0.1	132.2	0	91.1
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	6.7	0.3	42.7	0	100.0
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	No	7.8	1.4	37.1	0	100.0
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	M	Yes	No	6.4	0.8	35.8	0	100.0
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	5.4	0.1	537.8	1	98.1
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	5.8	0.2	37.5	0	100.0
FOS002	436429, 266276	Valley Fields, Fosse Way Main	M	Yes	No	6.3	0.2	38.4	0	100.0
BGT004	426972, 275882	301 Cromwell Lane, Burton Green	M	Yes	No	9.9	0.7	63.2	0	100.0

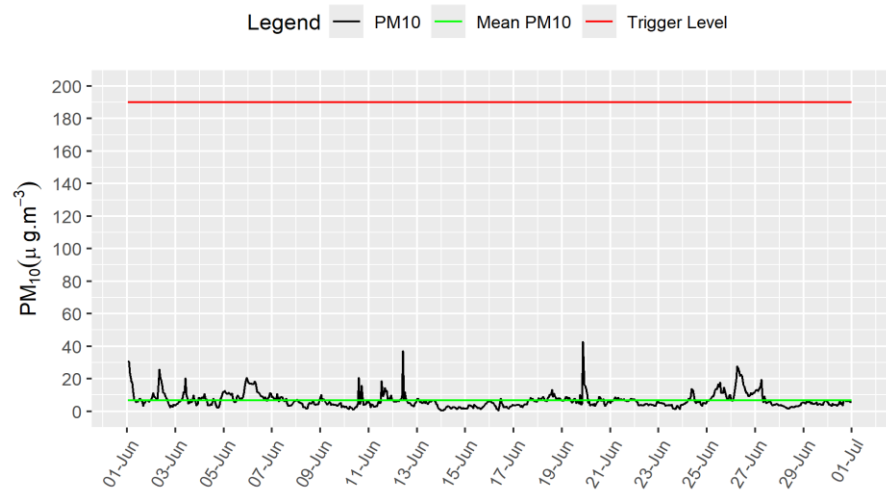
Table 2: Summary of exceedances during period (June 2024)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
CUB001	02/06/2024: 20:01 - 21:00; 537.8 µg m ⁻³	This exceedance occurred outside of current BBV construction hours, so the exceedance is unlikely to be associated with HS2 construction works.	N/A

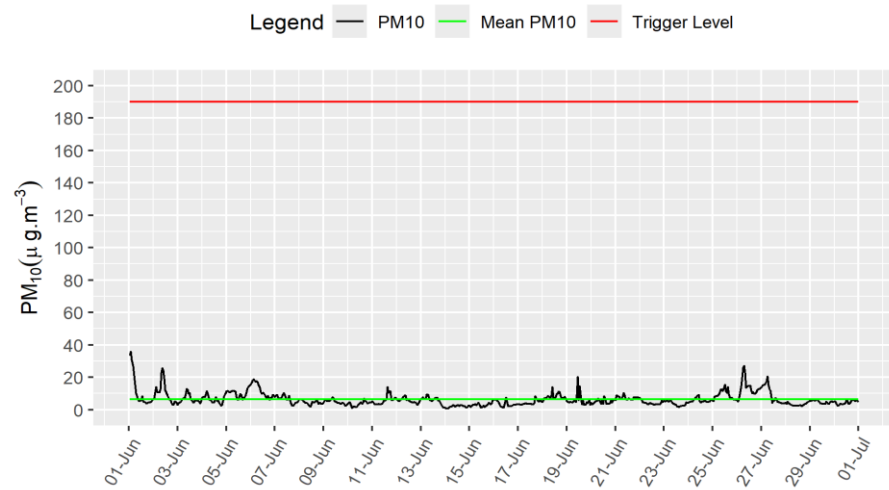
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



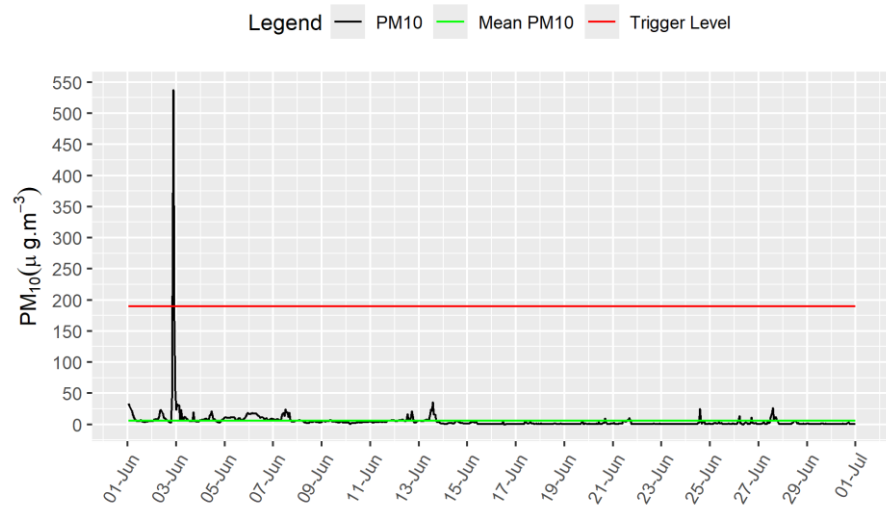
2B1001



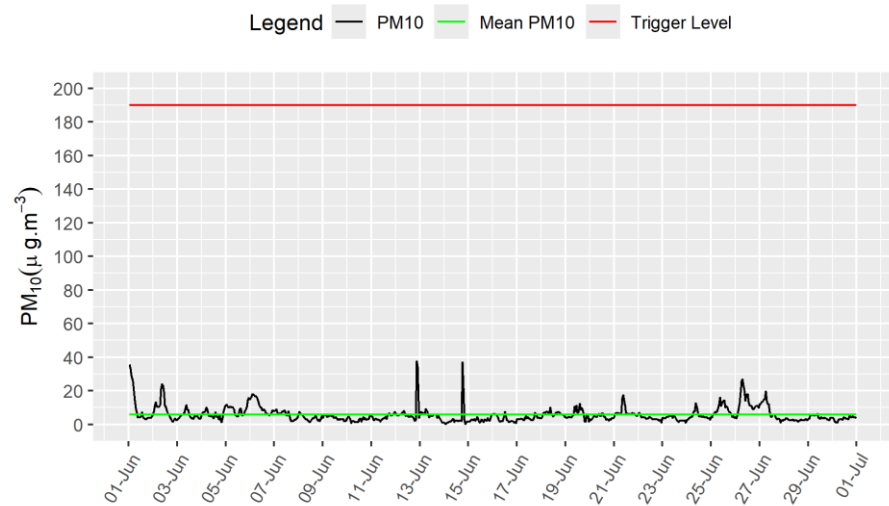
OC001



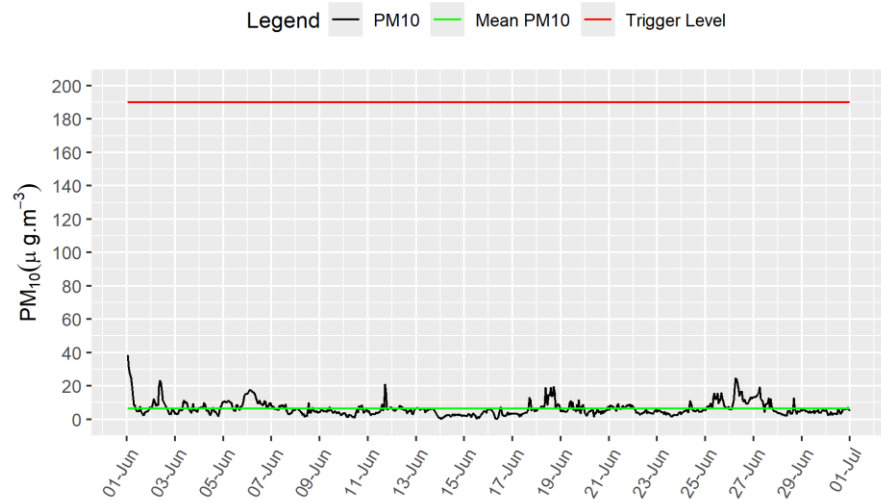
CUB001



FOS001



FOS002



BGT004

