

Air Quality and Dust Monitoring Monthly Report – January 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 January 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.

Stoneleigh Park – East Lodge

- Operational haul road.
- Bored piling works.
- Site maintenance.
- Pile cropping.
- North accommodation overbridge wing wall construction including steel fixing, shuttering, and concreting, site maintenance, operational haul road, installation of parapets.

Cubbington Compound Worksite

- Piling works.
- Haul road maintenance.
- V-ditch maintenance.
- Wheel wash.
- Plant maintenance.
- Concrete casting.
- Excavation.
- Backfilling.

Sublot 2B2

Burton Green Tunnel

- No works.

Carol Green Rail Underbridge

- No works near monitor.

Waste Lane Overbridge Satellite

- Galldris Excavation works for Burton Green Tunnel.
- Jet washing the tunnel walls.

Welsh Road Underbridge Satellite Compound (Sublot 2AS)

Offchurch Cutting – Welsh Road Farm

- Welsh Road Underbridge steel install to wingwall 1a and scaffold to deck
- Stone platform construction north and south of canal
- Trial holes to south of canal
- Sheet piling to south of canal
- Installation of bentonite farm to south of canal
- Offchurch Cutting topsoiling and drainage blanket.

Offchurch Cutting – Valley Fields

- Severn Trent - trenching works and pipe install for water main diversion.
- Wing wall construction at Hunn Road overbridge
- Remedial works to piers 1 and 2 at Hunningham Road overbridge
- Bulk Earthworks to River Leam Embankment area
- Install permanent drainage pipes and manholes at River Leam Embankment.

A429 Kenilworth Road Overbridge (Sublot 2B1)

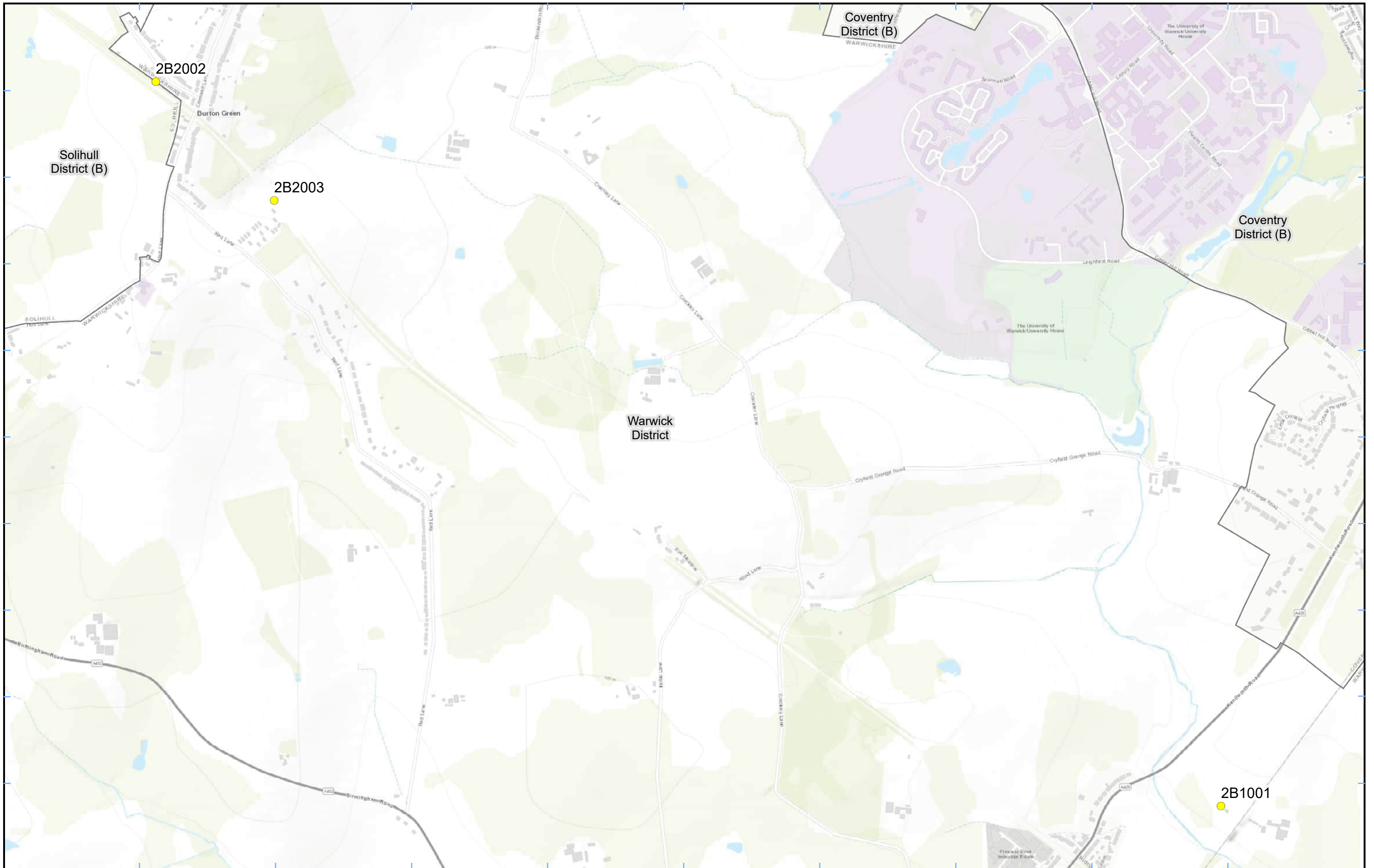
- Articulated Dump Truck (ADT), Excavator and dozer in use for shifting class 2 material / haul road maintenance.

- 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 (January 2024).
- 1.1.9 Data capture was below 90% for multiple monitors. Less sunlight and more overcast weather conditions, that we would normally expect for January, has meant that 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 January.
- 1.1.10 There were no (0) complaints received during the reporting period (January 2024).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within WDC



Legend
 Dust
 District Borough Unitary Boundaries

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

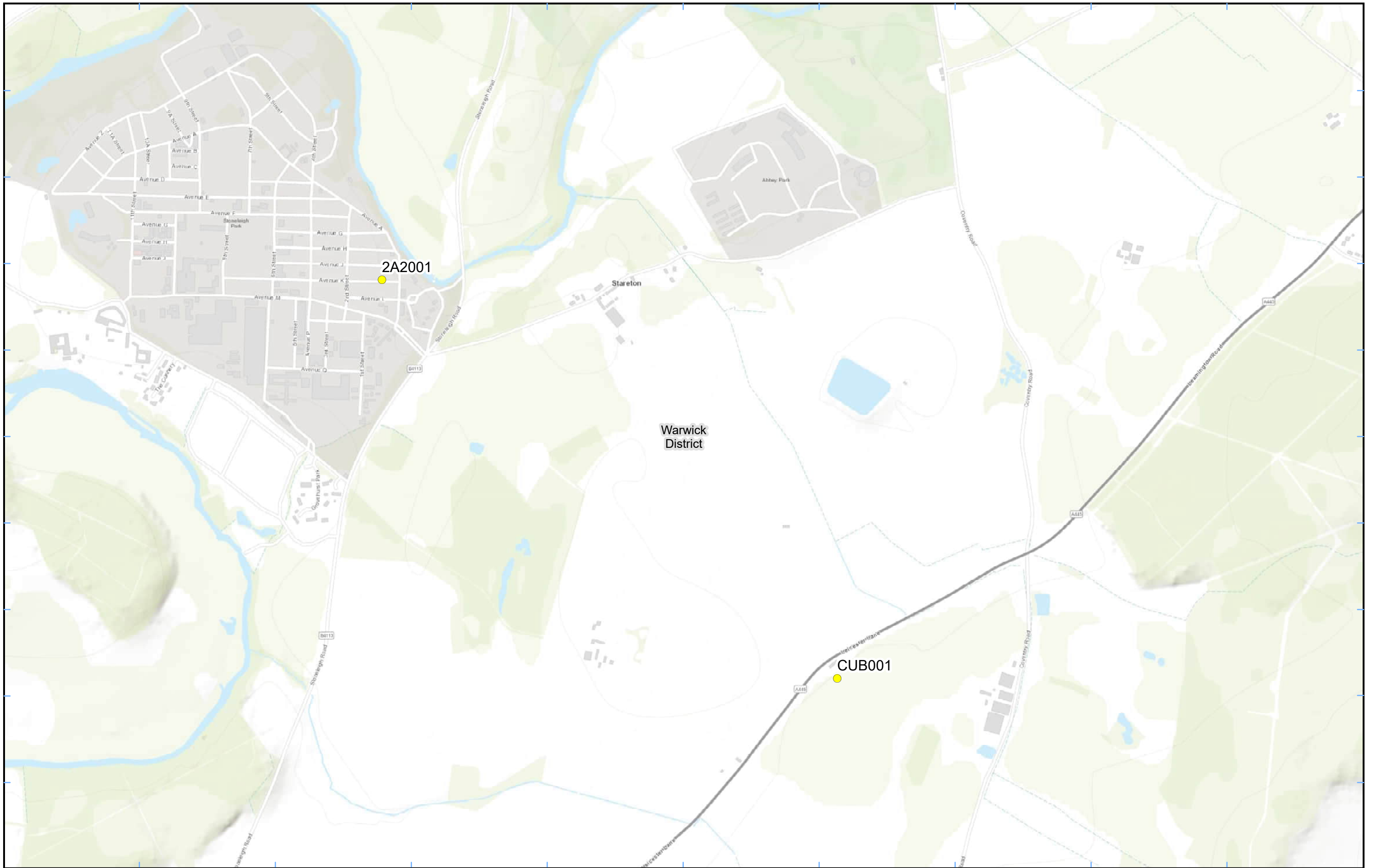
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Legend
 ● Dust
 □ District Borough Unitary Boundaries

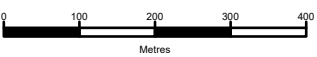
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Map Number
 Map Name
**Monitoring Locations
 In WDC (Sheet 2)**
 Warwick District Council

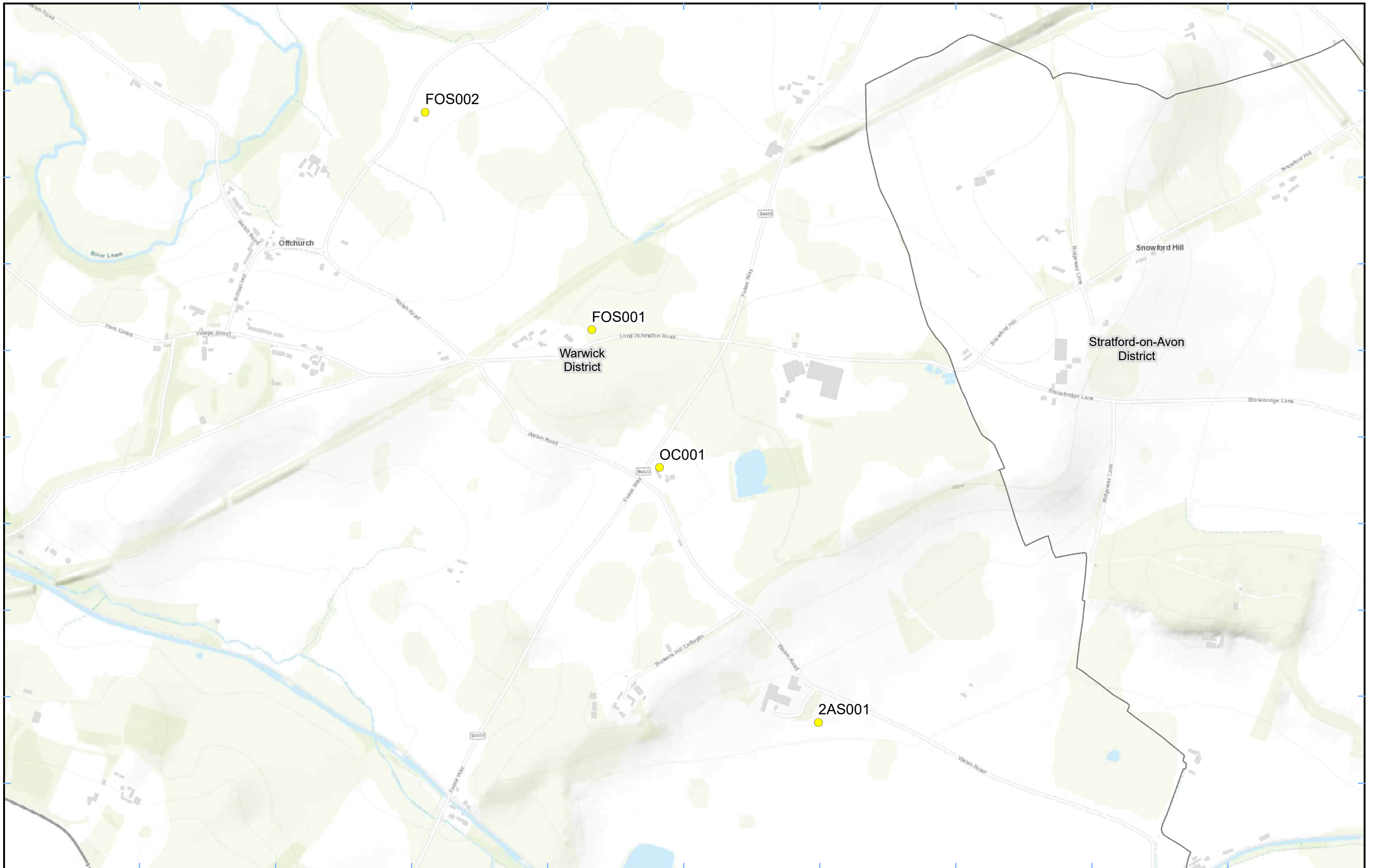

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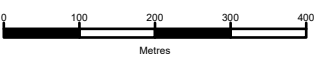
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Map Number
 Map Name
**Monitoring Locations
 In WDC (Sheet 3)**
 Warwick District Council


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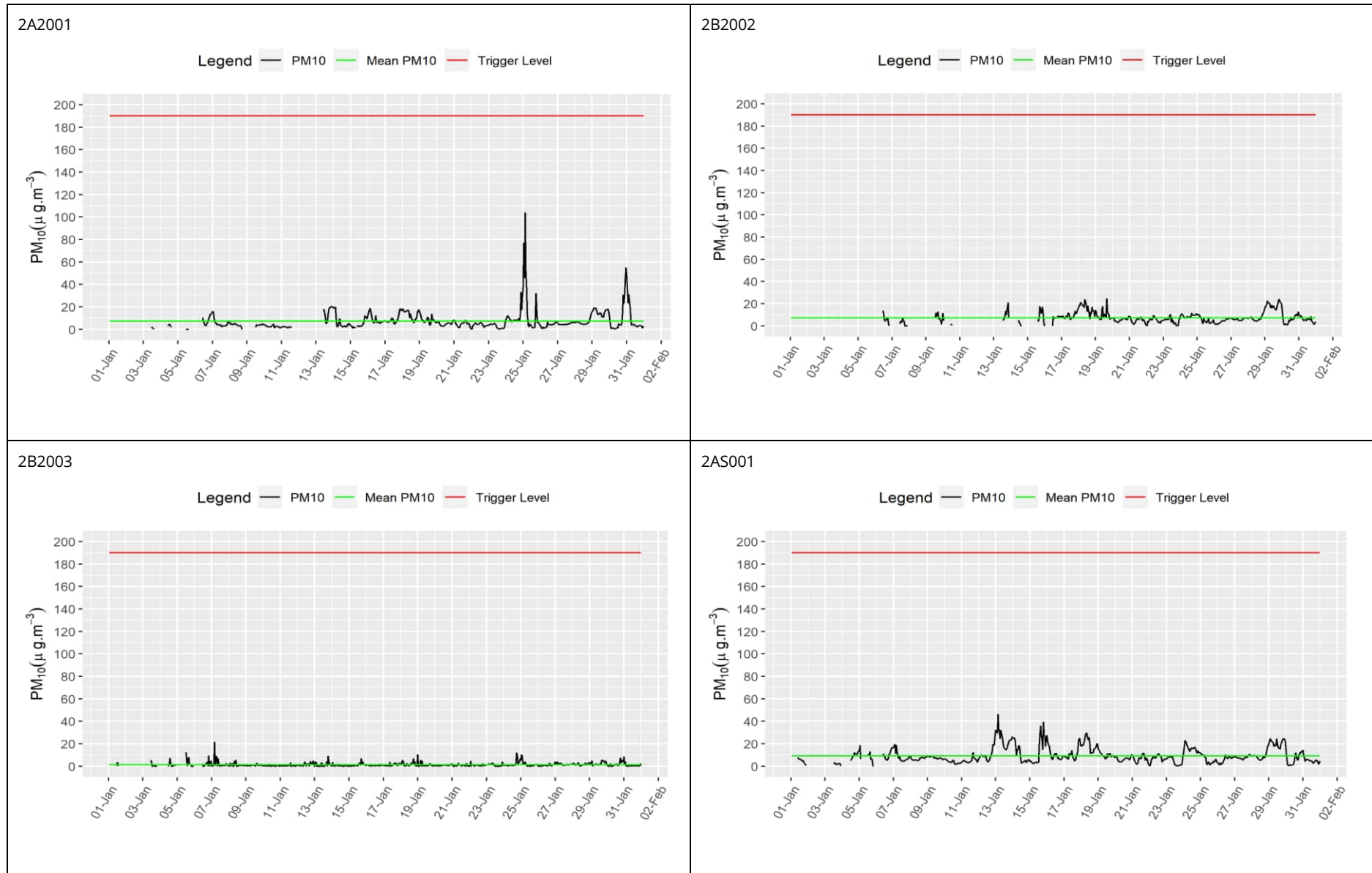
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Appendix B – Dust Monitoring Results

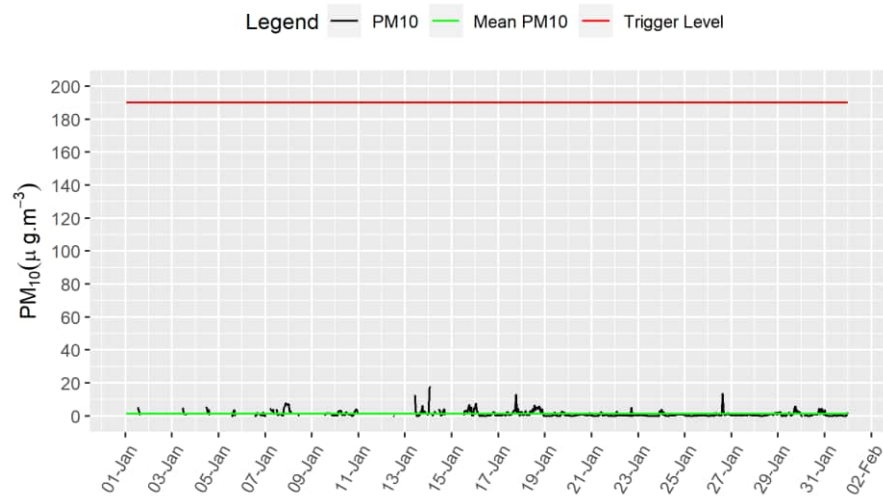
Table 1: Dust Monitoring Locations and Results

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	7.3	0.1	103.9	0	75.8
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	7.4	0.1	24.6	0	58.6
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	1.4	0.1	21.5	0	81.9
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	1.2	0.1	18.2	0	59.7
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	Yes	9.3	0.1	45.9	0	89.5
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	M	Yes	No	10.7	0.1	50.9	0	89.5
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	M	Yes	No	6.5	0.1	24.9	0	62.2
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	L	Yes	No	6.6	0.1	81.0	0	76.2
FOS002	436429, 266276	Valley Fields, Fosse Way Main	L	Yes	No	1.3	0.1	22.7	0	54.7

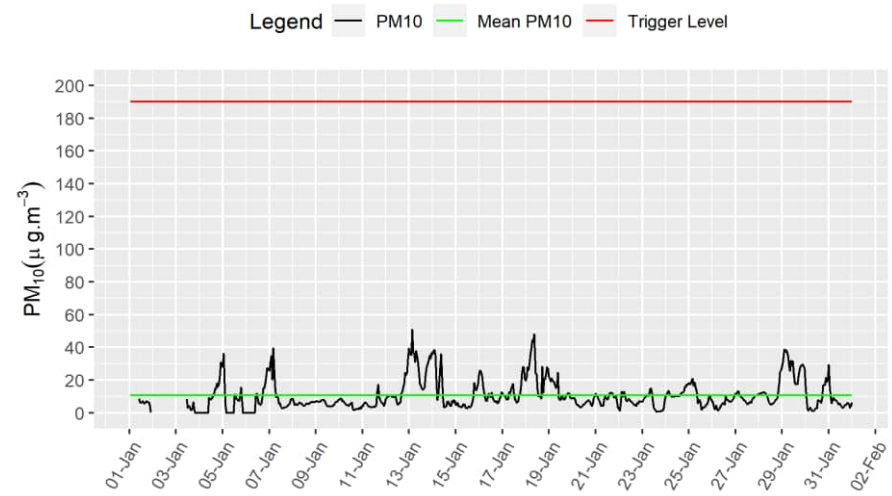
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



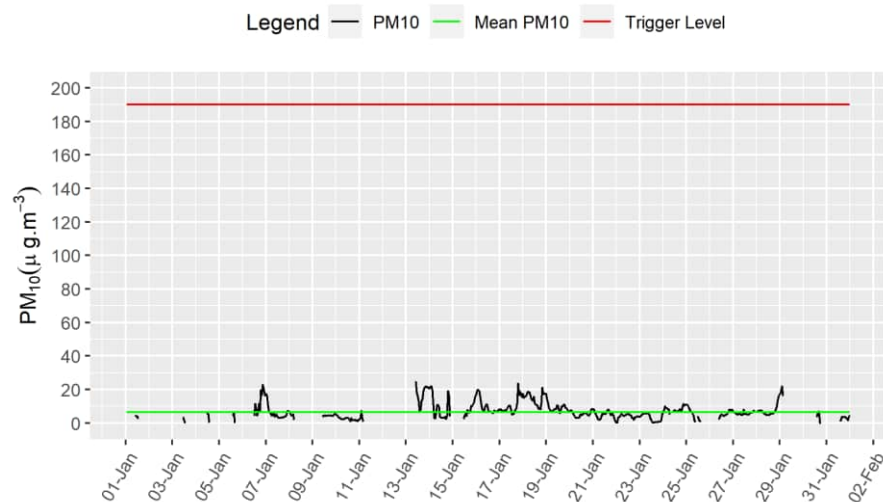
2B1001



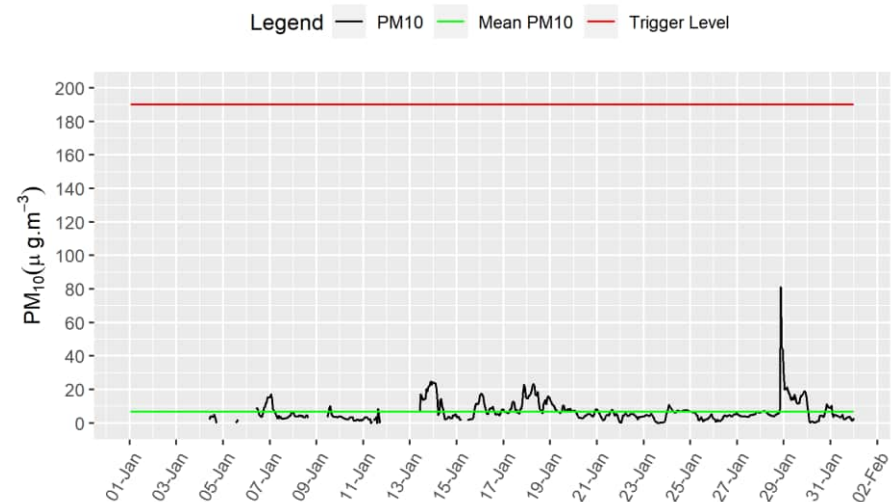
OC001



CUB001



FOS001



FOS002

