

## Air Quality and Dust Monitoring Monthly Report – April 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 April 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](http://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.
- Trial holes around Fosse Way with Vac Ex to locate leaking water main and other utilities.
- Reinforcement and concrete to abutments bases at Fosse Way Overbridge.
- Diversion of Offchurch Greenway and footpath W192.
- Maintenance of Fosse Way crane platforms and access roads (Earthworks).
- Excavation of Greenway Green Bridge for temporary works access and platforms.
- Fencing remedials to Offchurch Greenway Diversion.

### Stoneleigh Park – East Lodge

- Operational haul road.
- Site maintenance.
- Cropping piles.
- Fixing reinforcement.
- Erecting formwork.

### Cubbington Compound Worksite

- Concrete pour.
- Lifting.

- Plant movements.
- Steel fixing.
- Haul road maintenance.
- Pile breaking.
- Rebar cutting.

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

- Tunnel excavation/diggers.
- Area 5 SB3 works.

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

#### Offchurch Cutting – Welsh Road Farm

- Welsh Road Underbridge Concrete Pour deck and wingwall 3.
- Strip falseworks to deck, install reinforcement and formwork to Wingwalls 4 and 1B.
- Permanent Drainage pipes and chambers to Grand Union Canal Embankment.
- Earthworks to Welsh Road realignment construction.
- Stone platform construction north and south of canal.
- Bored piling to south side of canal.
- Installation of bentonite farm to north side of canal.
- Concreting and Piling works.

#### Offchurch Cutting – Valley Fields

- Severn Trent - backfill works and pipe installation for water main diversion.
- Bulk Earthworks to River Leam Embankment area.
- Install permanent drainage pipes and manholes 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.
- Stockpile subsoil to south side of Hunningham Road.

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

- Trench sheet installation.

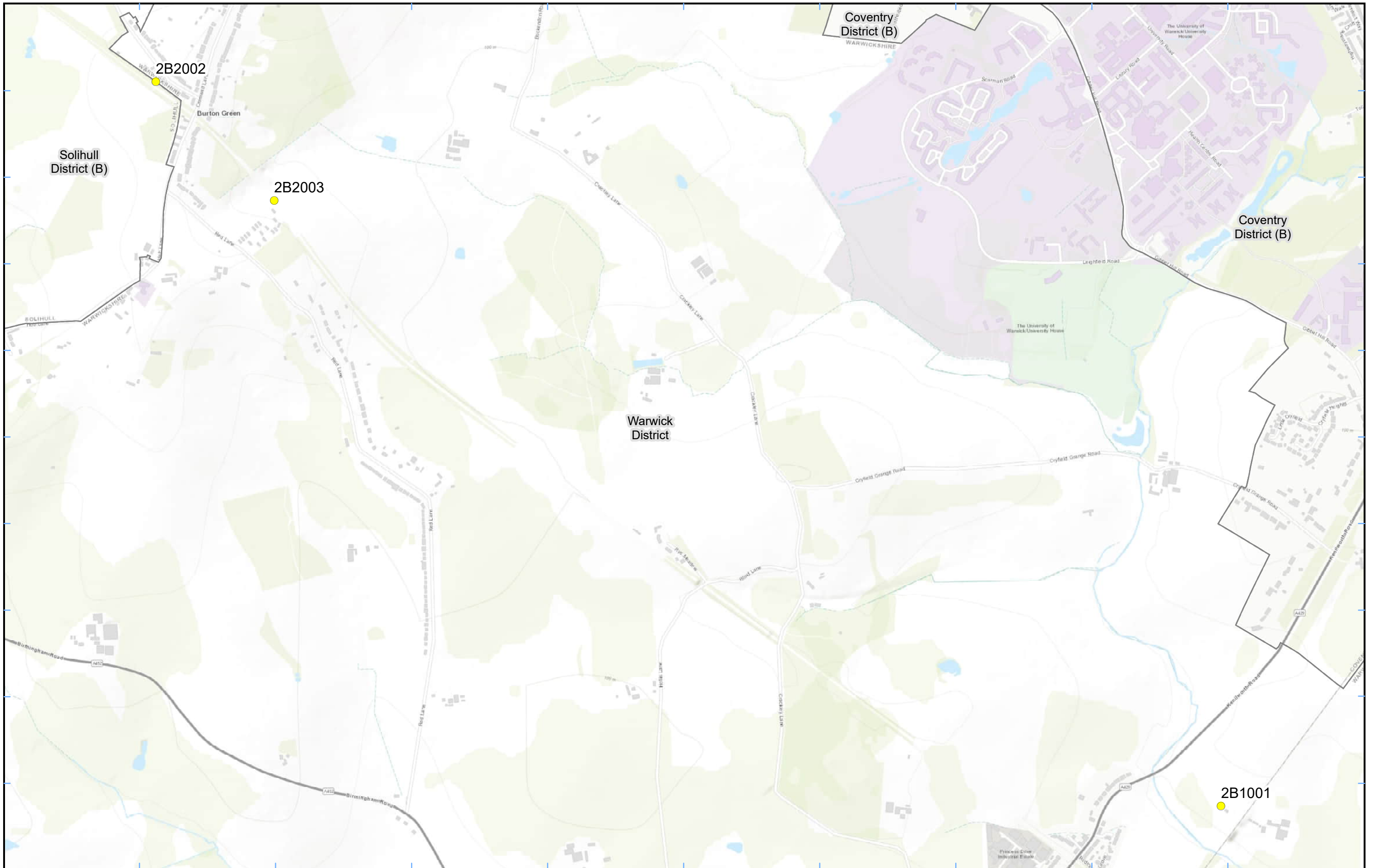
1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.

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 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 No (0) dust trigger alerts were recorded during the monitoring period (April 2024).
- 1.1.9 Monitor BGT004 was commissioned and installed on 9<sup>th</sup> April 2024.
- 1.1.10 Data capture was below 90% for FOS002 due to it being swapped out on the 19<sup>th</sup> April 2024.
- 1.1.11 There were no (0) complaints received during the reporting period (April 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

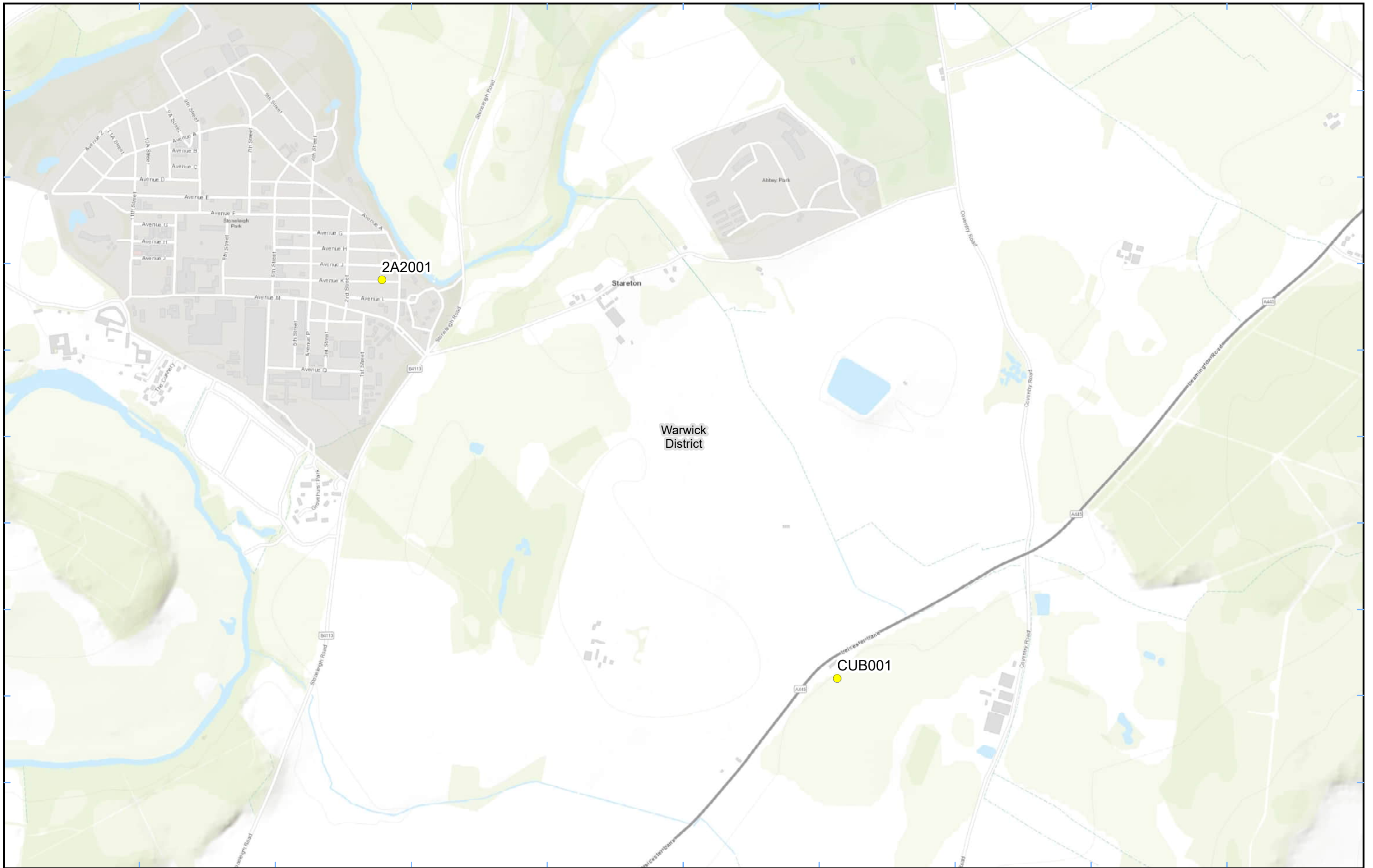
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**Legend**

- 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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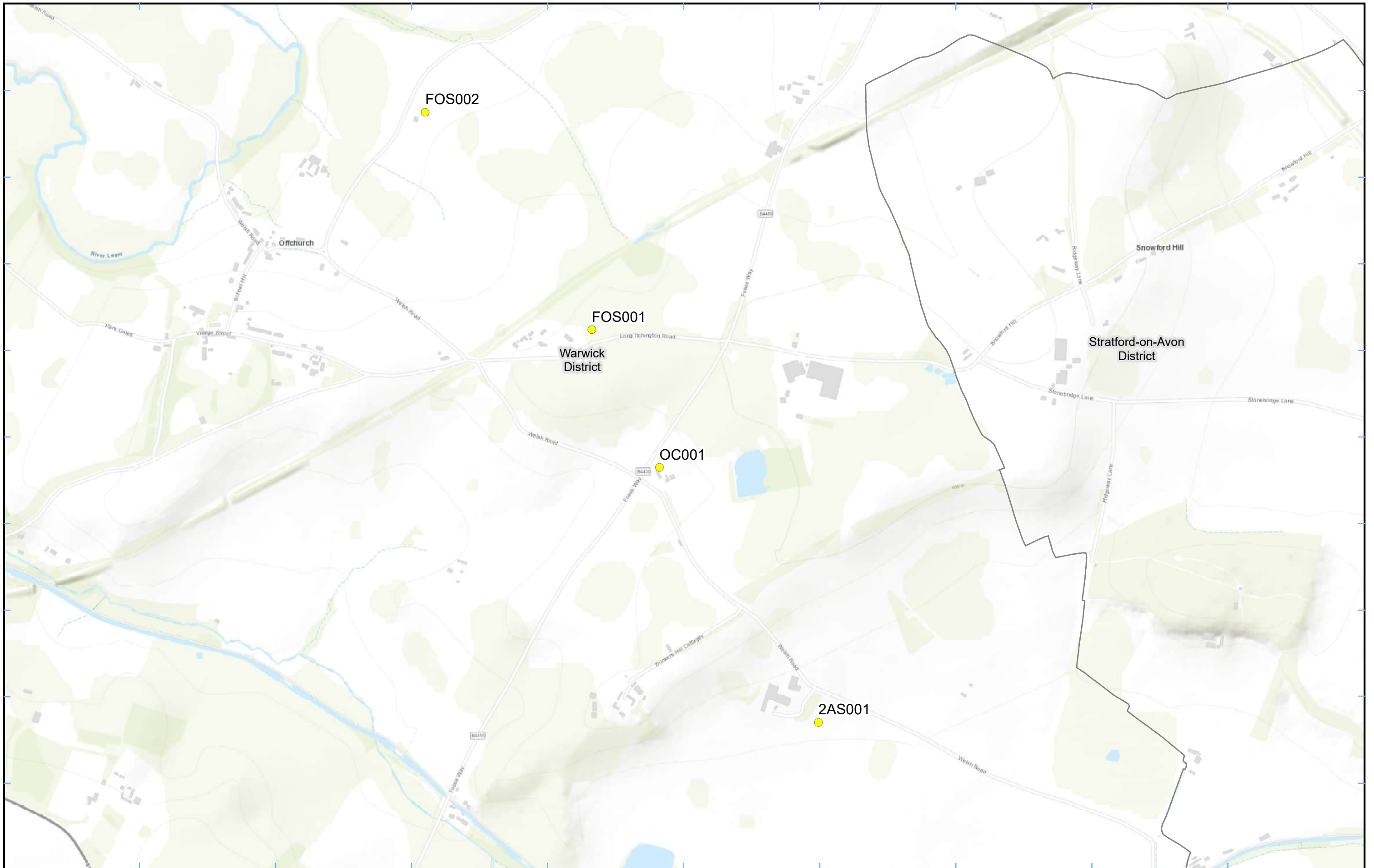
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Map Number  
 Map Name  
**Monitoring Locations  
 In WDC (Sheet 3)**  
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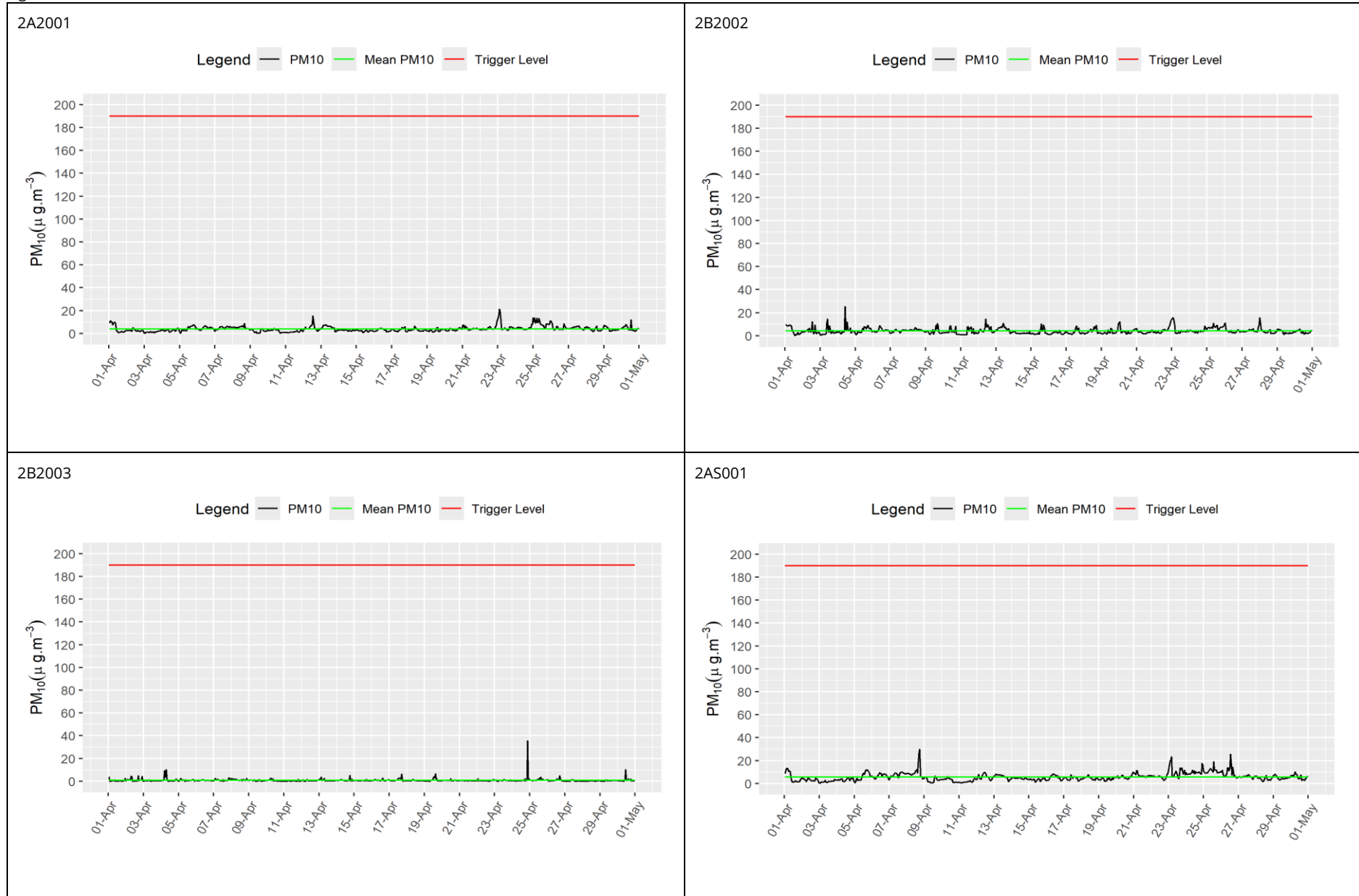
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# Appendix B – Dust Monitoring Results

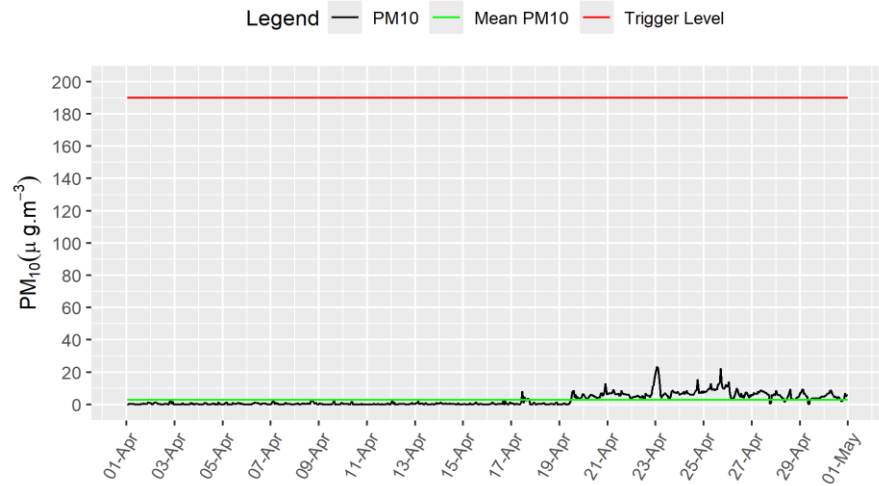
Table 1: Dust Monitoring Locations and Results

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 <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1-hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture (%)
2A2001	432798, 271434	East Lodge, Stoneleigh Park	M	Yes	No	4.0	0.2	21.4	0	100.0
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	4.2	0.2	25.4	0	100.0
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	0.8	0.1	35.5	0	97.6
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	2.8	0.1	23.4	0	91.9
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	No	5.8	0.3	29.9	0	100.0
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	M	Yes	No	5.2	0.3	38.6	0	100.0
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	4.0	0.1	22.6	0	99.6
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	4.0	0.1	27.9	0	100.0
FOS002	436429, 266276	Valley Fields, Fosse Way Main	M	Yes	No	2.3	0.1	23.3	0	86.3
BGT004	426972, 275882	301 Cromwell Lane, Burton Green	M	Yes	N/A	8.9	1.1	91.1	0	71.3 (97.0)

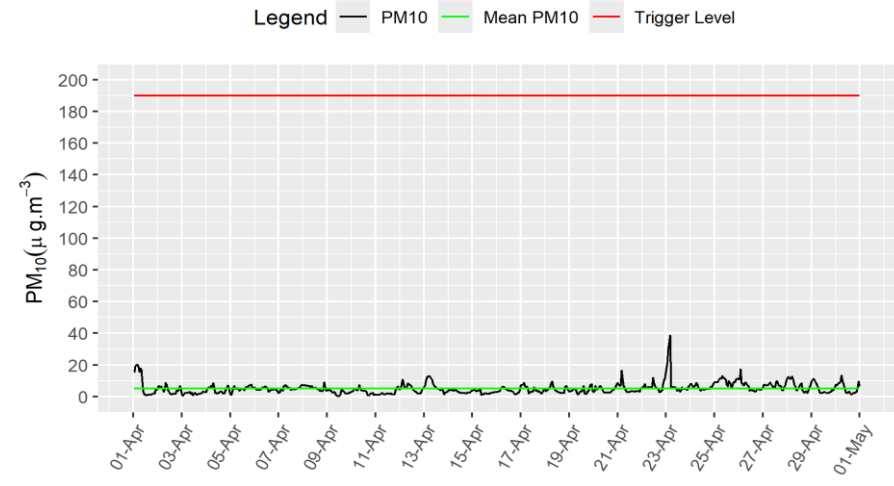
Figure 4: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



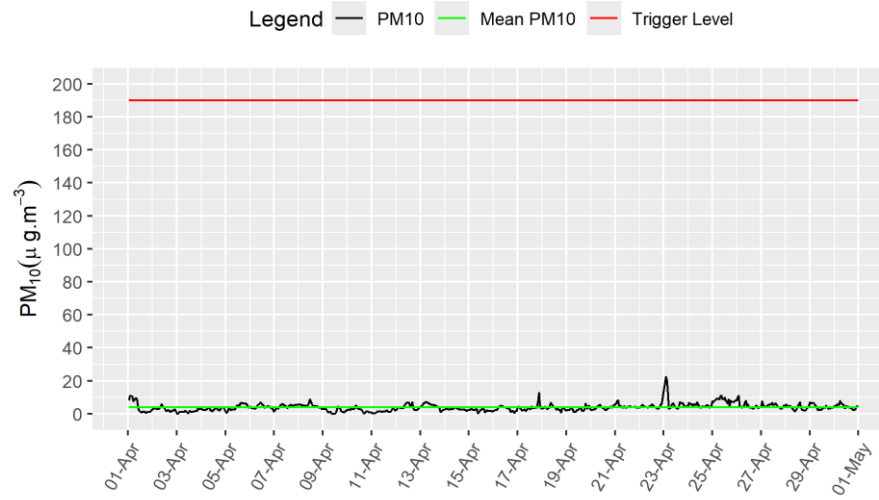
2B1001



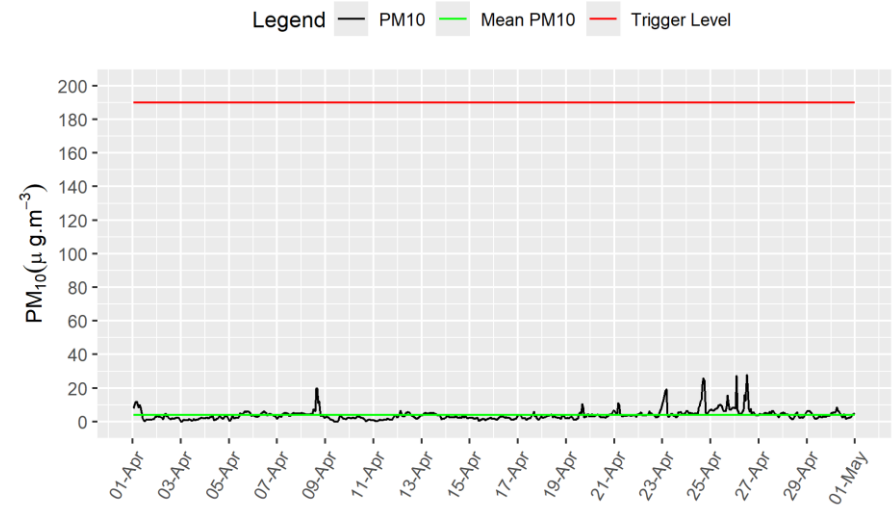
OC001



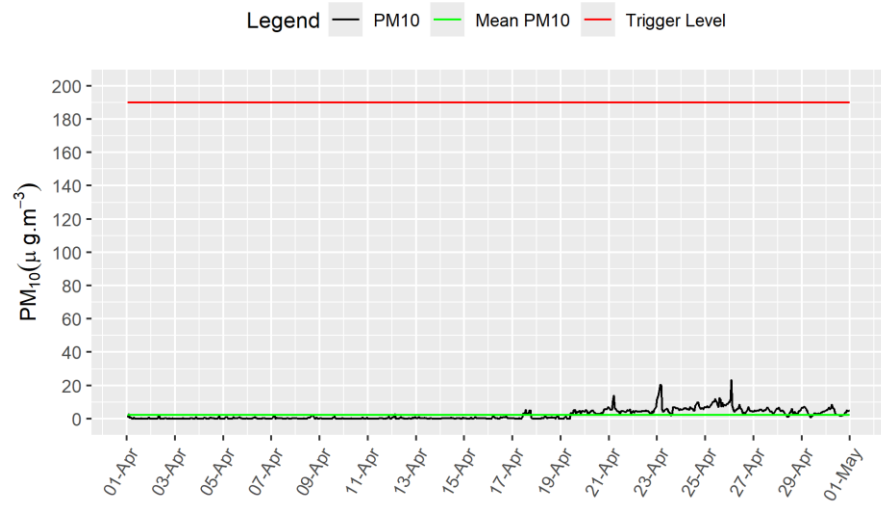
CUB001



FOS001



FOS002



BGT004

