

Air Quality and Dust Monitoring Monthly Report – April 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 April 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

- Utilities road works.
- Haul road maintenance.
- Heras fencing remedials to Greenway footpath diversion.

Stoneleigh Park– East Lodge

- A Bachy Soletanche Balfour Beatty Ground Engineering joint venture (SB3) doing piling works at south accommodation.
- Haul road maintenance (dust suppression and grader).
- Stoneleigh Road green underpass precast unit installation and underpass dewatering.

Cublington Compound Worksite

- Earthworks ongoing to Pier 2 to be completed by 2nd week of May 2025.
- Works on bearing installation on Pier 3 and AB0 from 10th April 2025.
- Leicester Lane Rip rap installation (completed).
- Kerb installation after rip-rap.
- Concrete repair works and black-jacking ongoing.

Burton Green Tunnel (Sublot 2B2)

- Reinforcement work at Area J upstand.
- Reinforcement works at Base slab Area C-F.

- Concrete pour for emergency escape ramp.
- Earthworks for Area J (Emergency escape ramp).
- Earthworks for Area N.
- Reinforcement work for Tunnel Mid-Wall (Pour 3 – 13).
- Reinforcement work for Area N Capping beam.

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 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 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.

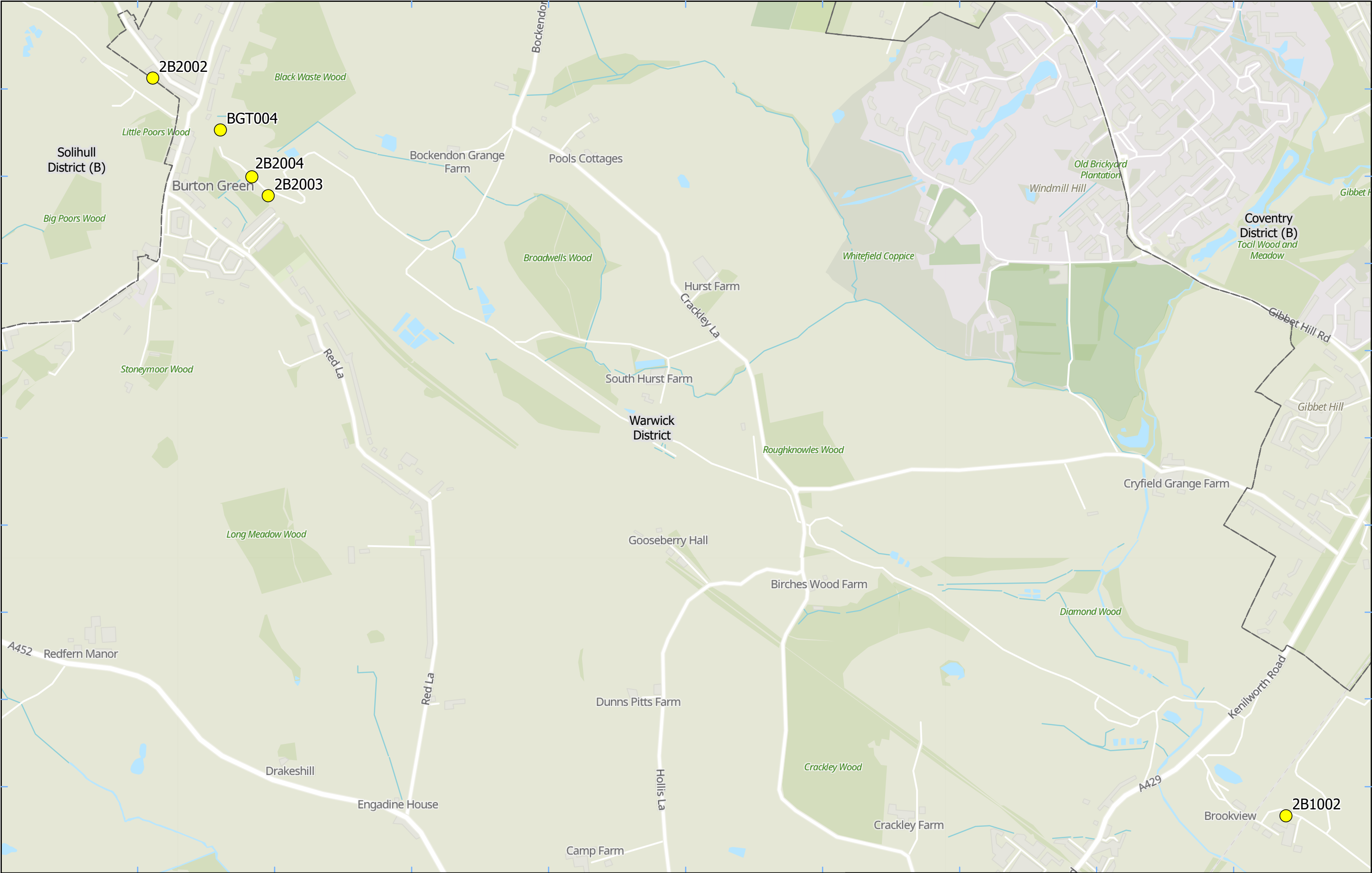
A429 Kenilworth Road Overbridge (Sublot 2B1)

- Concrete pour (133m³ of Mix 13G).
- Installation of cast-in drainage and utilities.
- Edge Formwork / Stop Ends.
- Concrete Curing.
- Strike Formwork.
- East Approach-Road Box Cutting and Drainage.
- Platform by the Auto-Transformer Station (ATS) access track for utility works.
- Installing kerb east and west.
- High Speed 2 (HS2) maintenance track.
- Stockpile to Landscape fill.
- Landscape fill Dig & Replace (D&R).
- Temporary drainage plan.
- Export Rough Cut class 2 Haul to A452 Realignment.

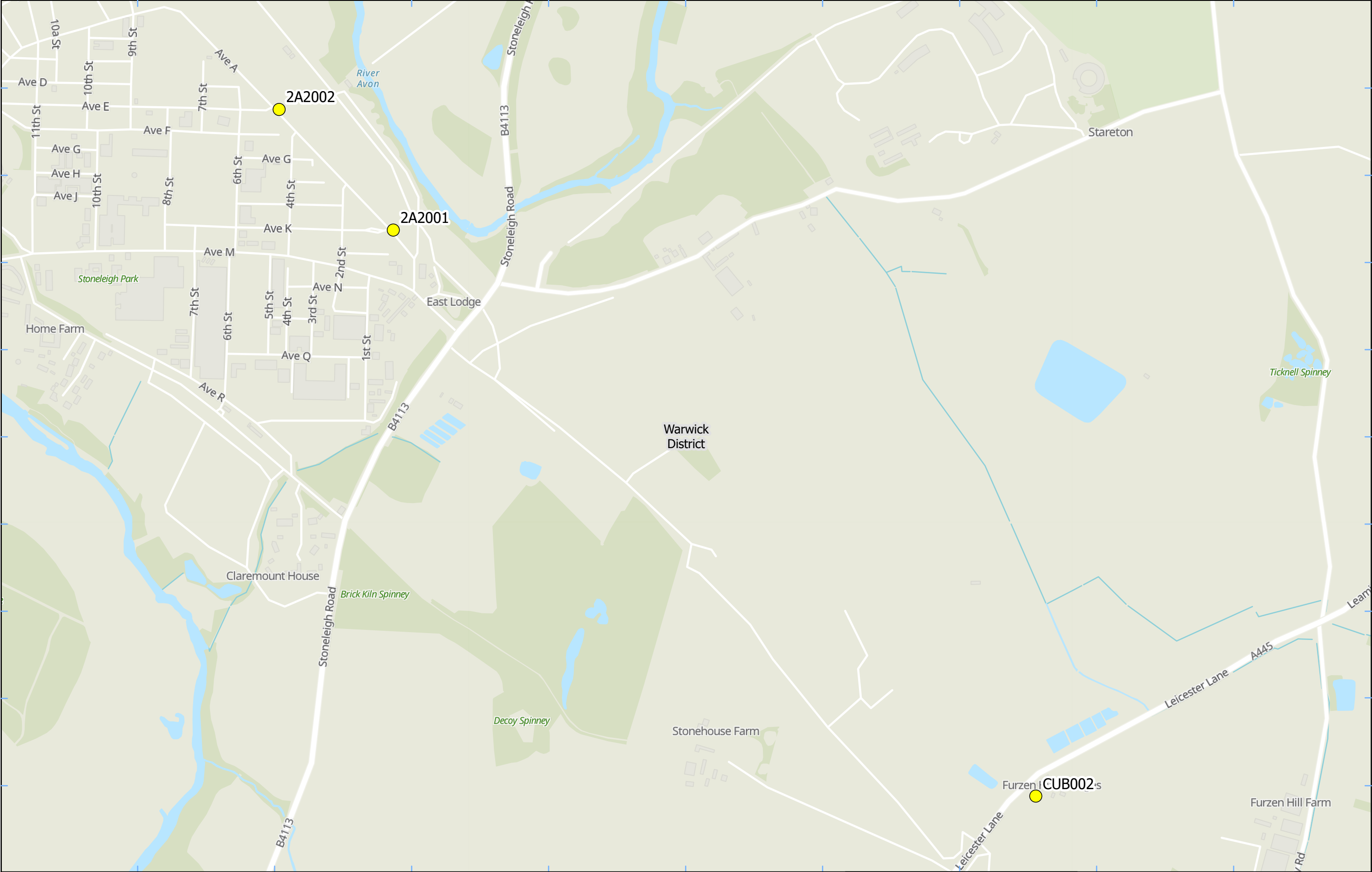
- 1.1.5 Eleven (11) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, 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 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 2B1002 - A fault investigation site visit was carried out on 9th April 2025, but the issue could not be resolved. A site visit is to be scheduled to resolve the monitor issues.
- 1.1.10 There were no (0) complaints received during the reporting period (April 2025).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within WDC



Legend Dust Monitor District Borough Unitary Boundaries	Map Number	 <small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>	<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>
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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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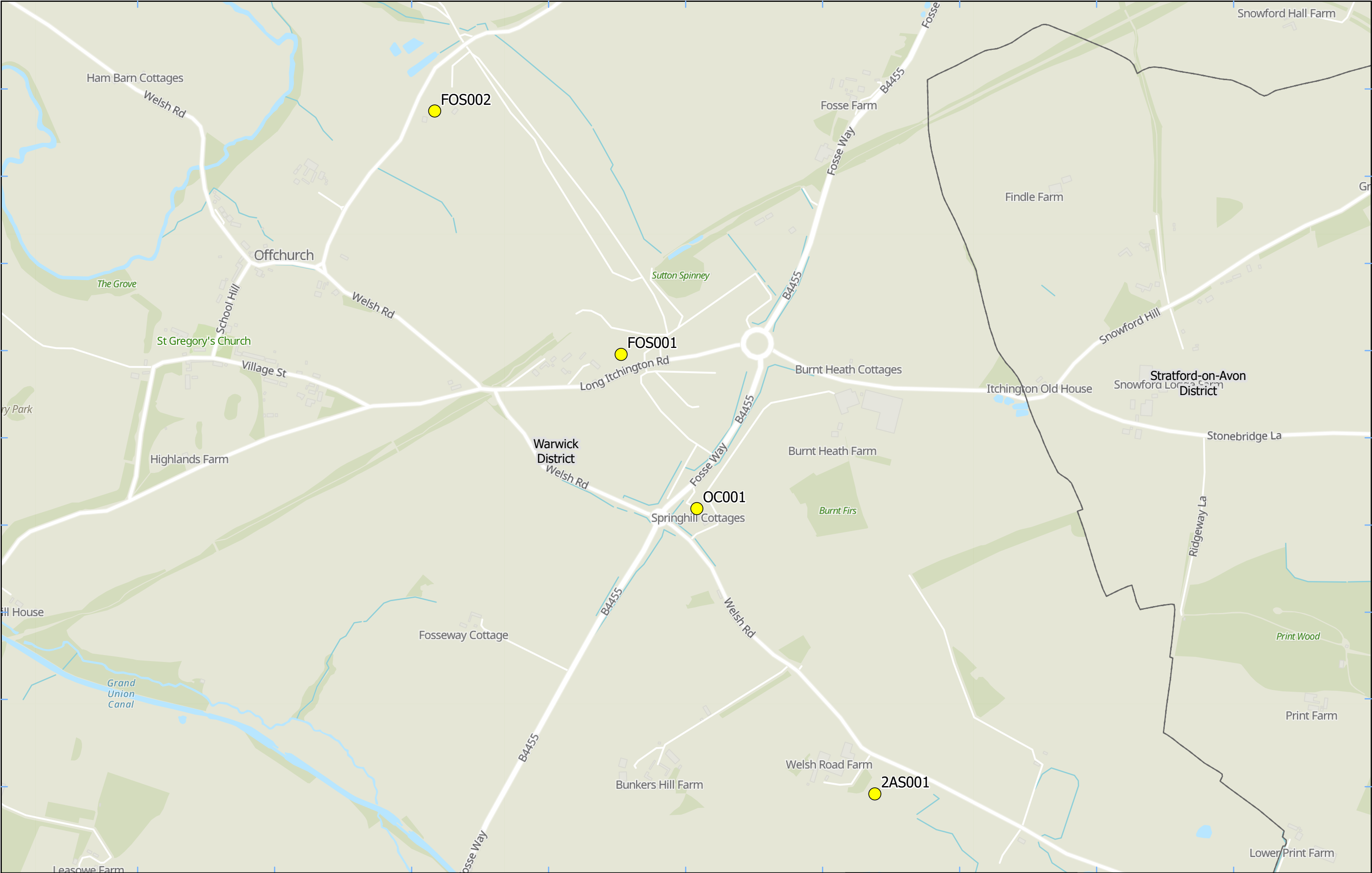


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Metres

Date: 02/04/25



Legend

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number

Map Name

Monitoring Locations
In WDC (Sheet 3)

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Metres

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	10.9	1.3	46.5	0	100.0
2A2002	432566, 271671	East Lodge, Stoneleigh Park	M	Yes	No	9.6	0.3	33.7	0	100.0
2B2002	426768, 276023	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	11.1	0.2	42.8	0	100.0
2B2003	427135, 275649	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	10.0	0.0	83.7	0	93.9
2B2004	427083, 275709	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	6.3	0.0	167.5	0	95.7
2B1002	430371, 273678	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	-	-	-	0	-
2AS001	437578, 264581	Sublot 2AS, at Welsh Road Farm	M	Yes	Yes	15.9	0.9	256.5	3	100.0
OC001	437205, 265256	Springhill Cottages, Offchurch Cutting	M	Yes	No	9.0	0.2	36.1	0	100.0
CUB002	434097, 270282	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	1.3	0.0	37.3	0	99.3
FOS001	436912, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	9.1	0.1	35.2	0	100.0
FOS002	436506, 266235	Valley Fields, Fosse Way Main	L	Yes	No	12.4	0.4	58.7	0	100.0
BGT004	426983, 275858	301 Cromwell Lane, Burton Green	M	Yes	No	11.2	0.2	40.8	0	100.0

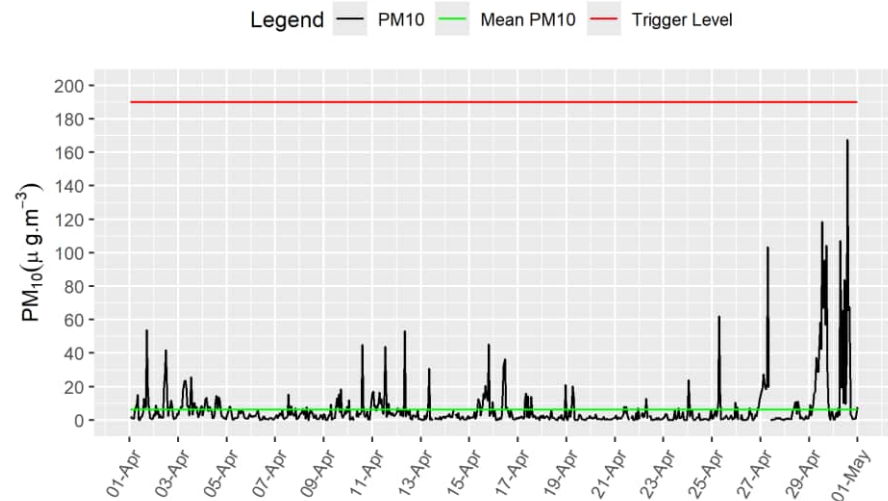
Table 2: Summary of exceedances during period (April 2025)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
2AS001	08/04/2025: 10:01 - 11:00; 256.5 $\mu\text{g m}^{-3}$ 09/04/2025: 15:01 - 16:00; 231.2 $\mu\text{g m}^{-3}$	Exceedances caused by landscaping works. Due to a lack of water resources, there was not a sufficient water available for dust suppression.	Additional resources are to be sourced for dust suppression to ensure that going forwards there is a sufficient resource available as required.
	25/04/2025: 13:01 - 14:00; 235.6 $\mu\text{g m}^{-3}$	Exceedance caused by earthworks happening in very close proximity to the monitor.	Concentrations decreased rapidly as works moved away from the monitor and no further action was considered necessary.

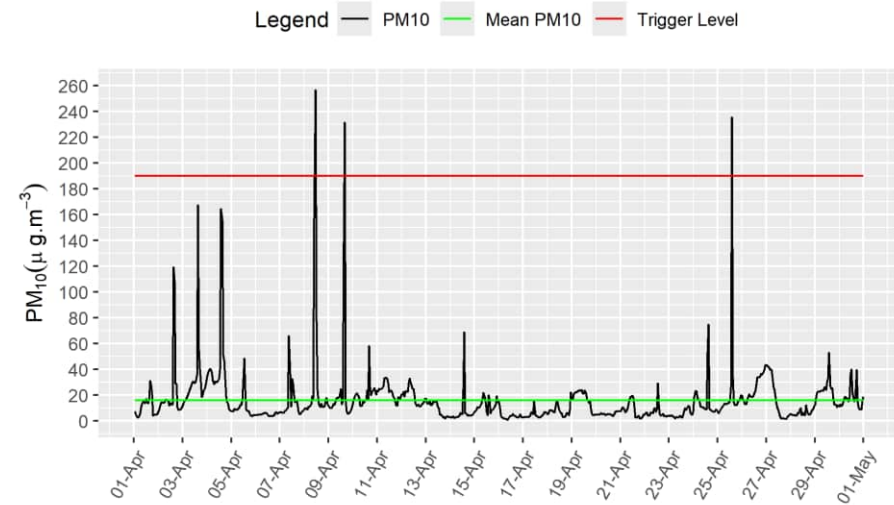
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



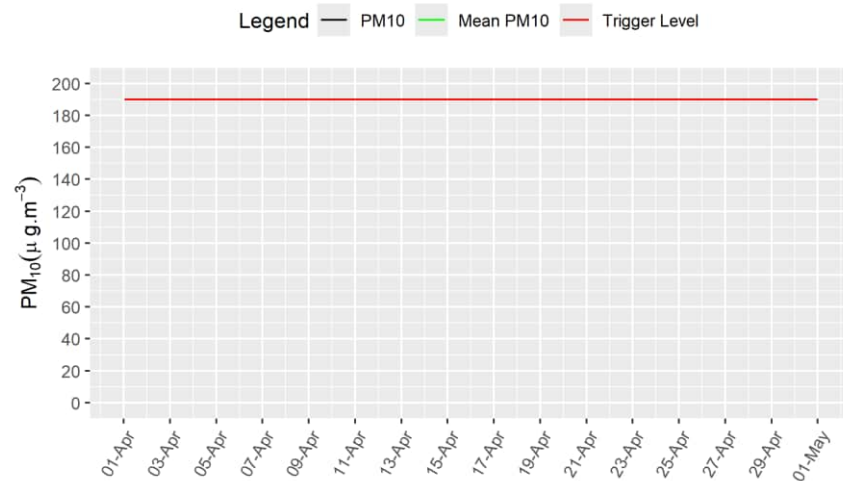
2B2004



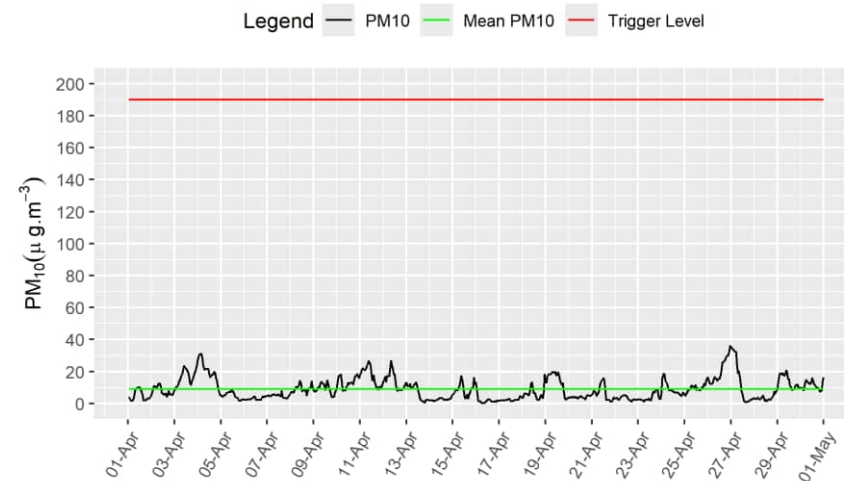
2AS001



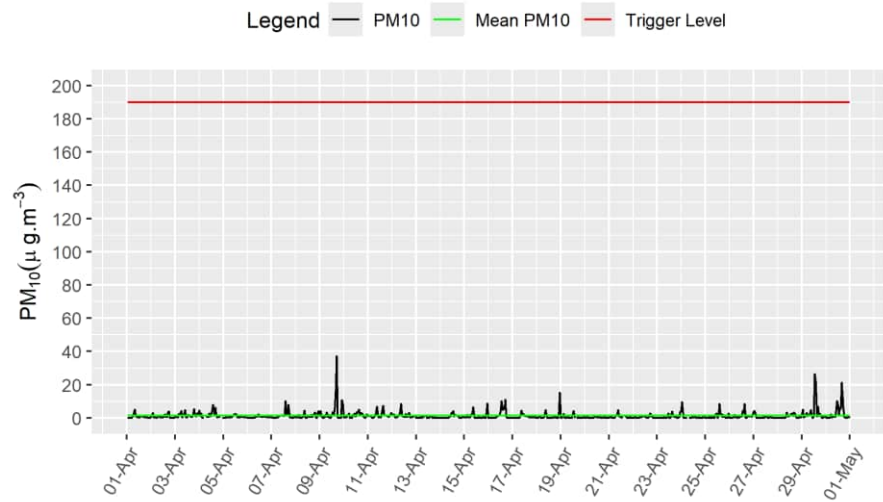
2B1002



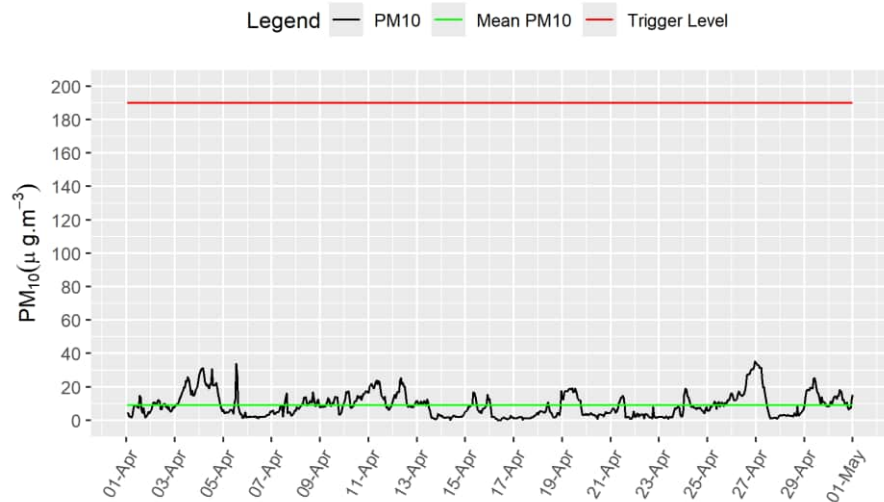
OC001



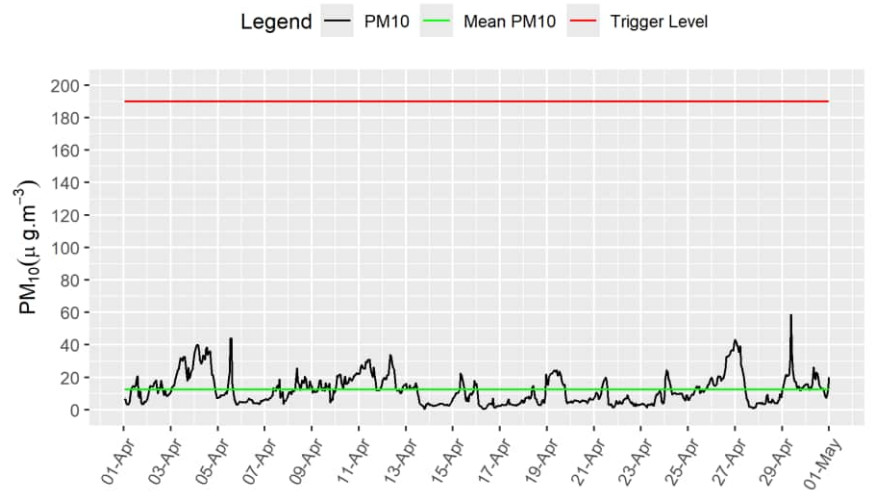
CUB002



FOS001



FOS002



BGT004

