

Air Quality and Dust Monitoring Monthly Report – March 2025

West Northamptonshire 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 dust monitoring undertaken in the West Northamptonshire District (WNDC) during March 2025.
- 1.1.2 Figure 1 and Figure 2 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 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, Figure 1 and Figure 2, include:

Twyford to Greatworth

Radstone and Hall Farm

- Bulk Excavation
- Stockpile Management
- Site Access Road/ Haul Road use and maintenance
- Drainage
- Works associated with the permanent diversion of Radstone Road.
- Works associated with the temporary diversion of Radstone Road.
- Lime stabilisation works around Radstone.
- AX15 abutments backfilling, blinding and scaffolding around. East and west approach structures slab foundation construction
- AX18 Deck completed, preparation for parapets installation. Lime stabilisation works
- A43 Road Closure – 9pm 7th March – 6am 10th March & 9pm 14th March – 6am 17th March.

Greatworth Hall

- Crushing and screening
- Excavate and replace at Greatworth South Cutting
- Main excavation works at Greatworth South Cutting
- Drainage works
- AN37 Pier backfilling and pier column construction. Preparation for beam delivery and installation.
- AN14 Deck completed. Parapets installation and transition structures construction.
- Stockpile management.

Greatworth To Southam

Banbury Road Overbridge

- Parapet removal;
- Slab construction install;
- Subsurface drainage installation.

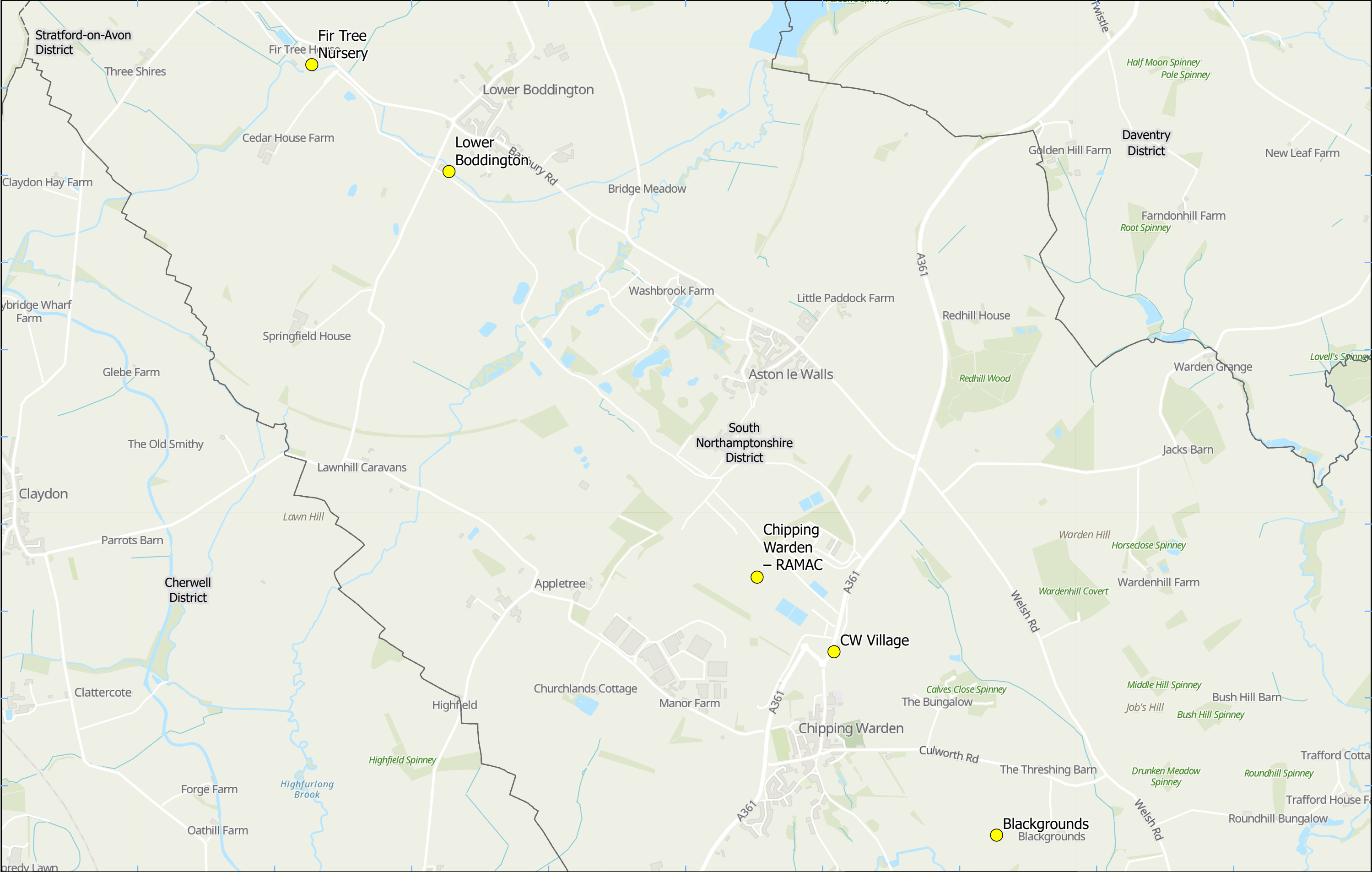
CW village

- Chipping warden Green tunnel PCC erection and other structures activities
- Green Tunnel maintenance for PCC erection and other structures activities
- Chipping warden green tunnel – Structural backfill
- Chipping Warden earthworks Soil Swap area
- Bulk earthworks
- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Chipping warden batching plant
- Chipping warden surface water sewer
- General maintenance
- Stockpile management
- Vegetation maintenance
- Site Access Road maintenance
- Compound maintenance
- Water management
- Ditch maintenance

- 1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a 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 3. 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 (March 2025).
- 1.1.9 Data capture was below 90% for the Blackgrounds monitor due to the shaded location of monitor causing insufficient charge to the battery.
- 1.1.10 There were no (0) complaints received during the reporting period (March 2025).

Appendix A –Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within WNDC



Legend

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number

Map Name

**Monitoring Locations
In WNDC (Sheet 1)**

**West Northamptonshire District
Council**



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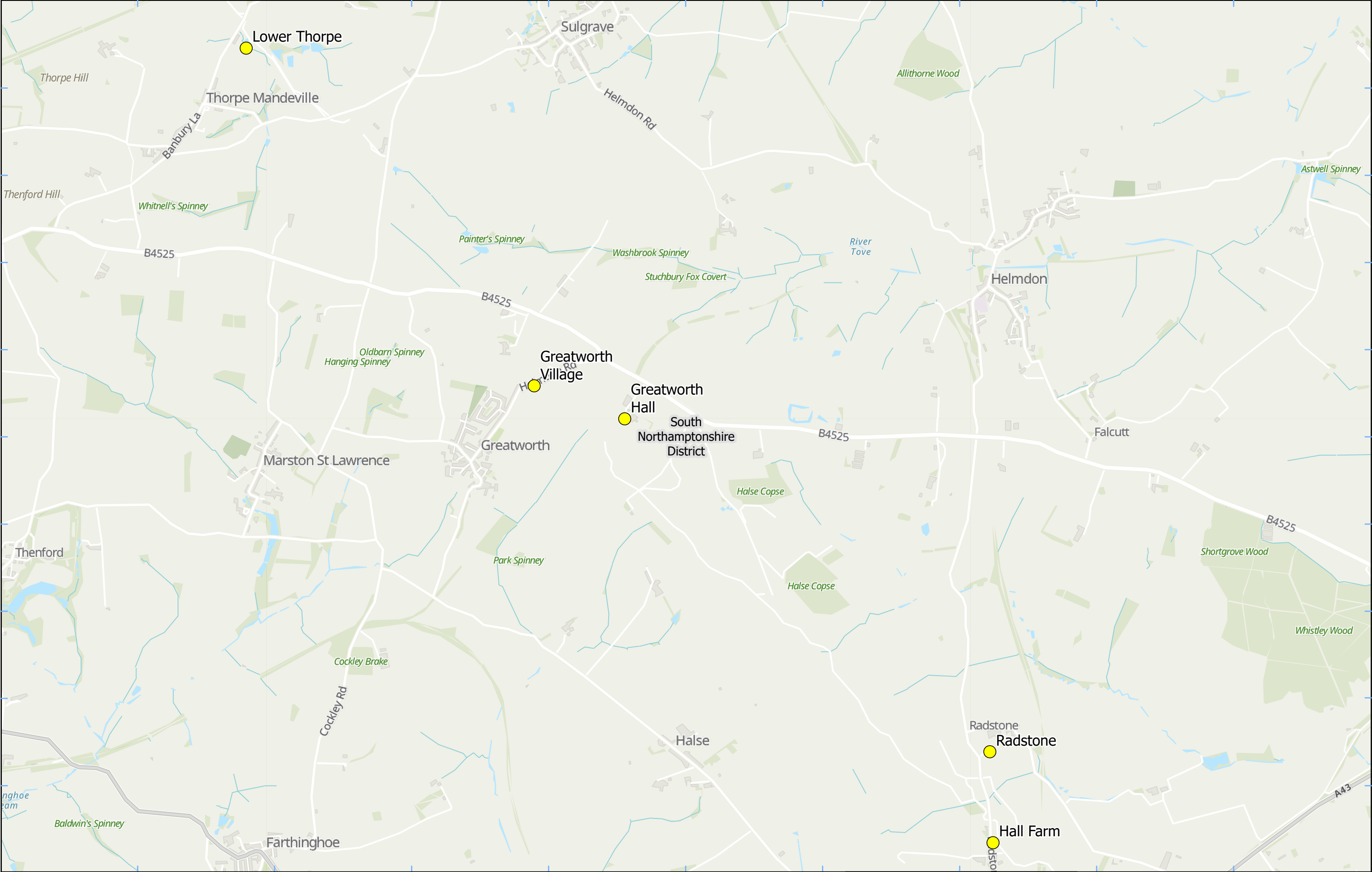


Scale at A3: 1:18,000



Metres

Date: 20/06/24



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><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><small>Doc Number:</small></div></div>
	Map Name	
	<div>Monitoring Locations In WNDC (Sheet 2)</div> <div>West Northamptonshire District Council</div>	<div><div>Scale at A3: 1:24,000</div><div><div></div><div>Metres</div></div><div>Date: 20/06/24</div></div>

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	1-hour data capture (%)
Chipping Warden – RAMAC	449600, 249755	Chipping Warden, West Northamptonshire	M	Yes	Yes	18.0	1.0	102.0	0	100.0
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	15.7	1.0	89.0	0	99.9
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	16.6	1.0	91.0	0	99.9
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	M	Yes	Yes	15.4	1.0	92.0	0	99.9
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	15.7	1.0	90.0	0	96.0
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	Yes	Yes	16.8	1.0	96.0	0	99.9
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	M	Yes	Yes	15.1	1.0	91.0	0	99.9
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	M	Yes	Yes	14.9	1.0	90.0	0	99.9
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	M	Yes	Yes	14.9	1.0	86.0	0	100.0
Blackgrounds	450846, 248413	Blackgrounds, West Northamptonshire	M	Yes	Yes	15.5	1.0	84.0	0	88.3

Figure 3: Continuous dust 1-hour mean indicative PM₁₀ concentration for all monitors



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