

Air Quality and Dust Monitoring Monthly Report – August 2025

West Northamptonshire 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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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 August 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.
- AX15 Abutments and west wingwalls construction
- AX18 Deck Waterproofing
- Brackley Culvert installation.

Greatworth Hall

- Crushing and screening
- Bulk Excavation
- Stockpile Management
- Site Access Road/ Haul Road use and maintenance
- Excavate and replace at Greatworth South Cutting
- Main excavation works at Greatworth South Cutting
- Drainage works
- AN37 Deck works and parapet installation
- AN14 Parapet Installation + Parapet Stitch FRC
- Stockpile management.

Greatworth To Southam

- Steel fixing, waterproofing, storage yard maintenance.
- Greatworth park and Greatworth Tee highways
- Highway works at Cedar Farm Accommodation Overbridge, Banbury Road Overbridge, Footpath SM101 Green Overbridge
- Lower Thorpe drop inlet - ramp install
- A361 utilities works
- Earthworks- backfill, loading and hauling, compacting at; Chipping Warden Green Tunnel, Aston le walls Embankment, High Furlong Brook Embankment / High Furlong Brook Viaduct & Lower Boddington Embankment
- Chipping Warden Green Tunnel North Portal Building and UTX Area
- Land Option 16A - Topsoil strip and V-Ditching at field 16a - 2.06
- Drop Inlet Culvert / Lower Thorpe North Embankment: Bulk Earthworks + Preparing access LTNC + placement of 1a1 fill around culvert in prep for waterproofing. Haul Road Maintenance
- Bulk earthworks - Edgcote North Embankment, Culworth embankment and Greatworth Green Tunnel backfill.
- Structures; Chipping Warden Green tunnel- steel fixing, waterproofing, storage yard maintenance.
- Lower Thrope - reducing platform level
- Greatworth Green Tunnel - blinding slab.

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 2, 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 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 3.

1.1.9 Data capture was below 90% for multiple monitors due to:

- Hall Farm monitor - Monitor was retrieved from site due to descope of location.

- Blackgrounds monitor - Very low data throughout the month was due to solar controller and battery faults. These were replaced on 27th August 2025.

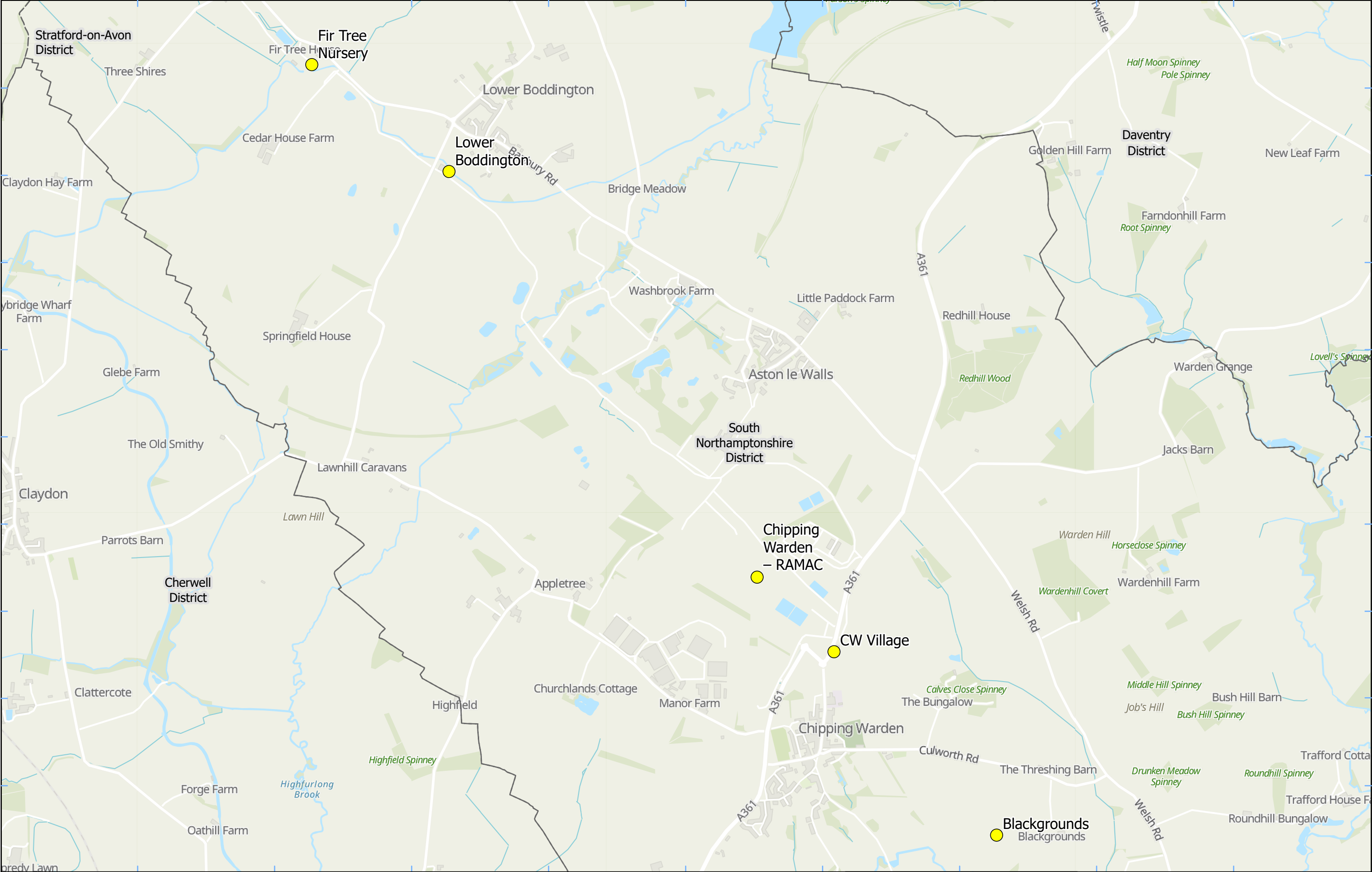
1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during August 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46639-C	N/A	Poor air quality, increase of dust in the area.	Dust likely to be related to the drier weather conditions, as all dust mitigation measures are in place. Monitors checked and recorded no breaches. Resident has been updated.

Appendix A –Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within WND



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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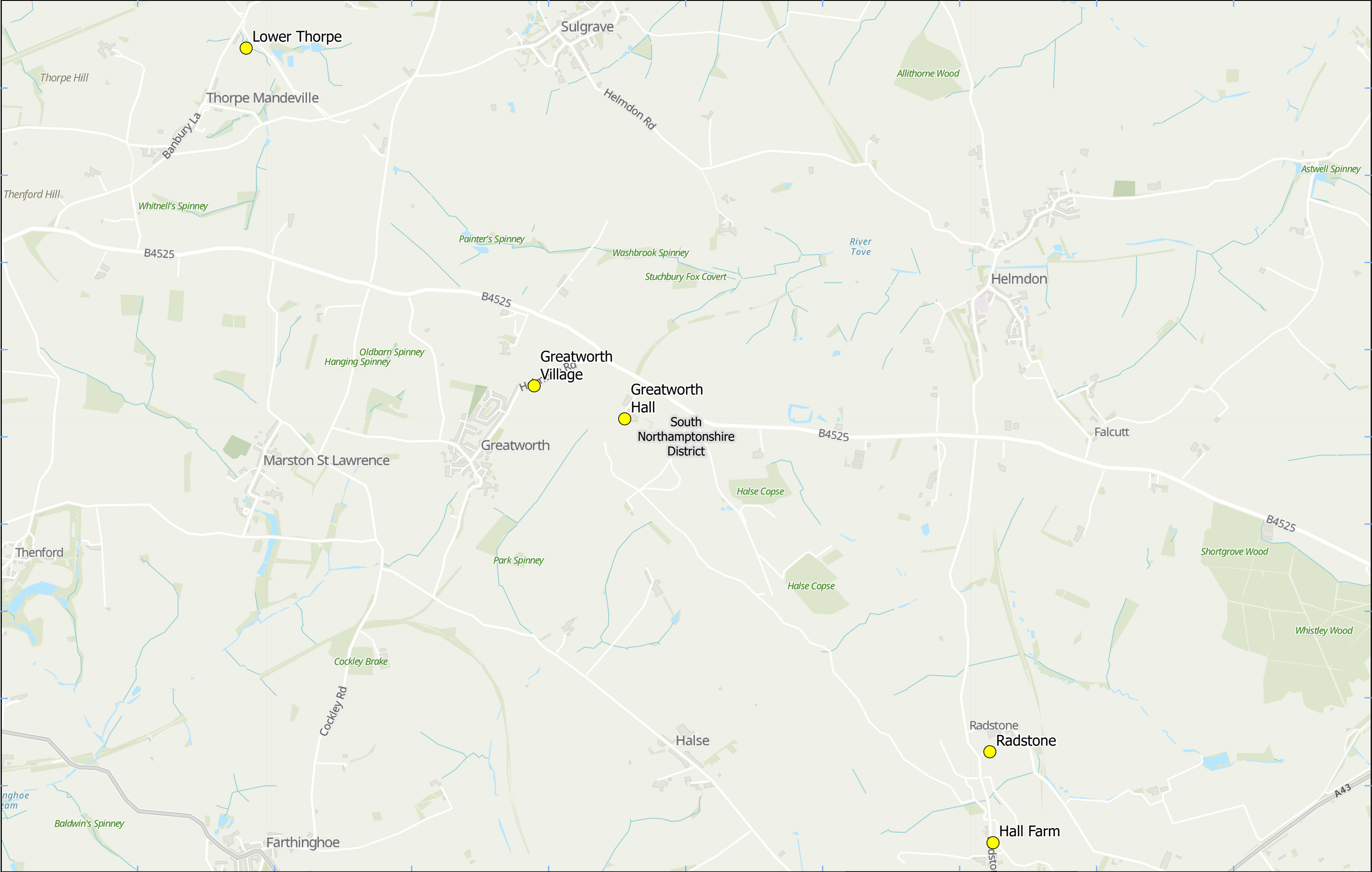


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Appendix B – Dust Monitoring Results

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	1-hour data capture (%)
Chipping Warden – RAMAC	449600, 249755	Chipping Warden, West Northamptonshire	M	Yes	Yes	7.2	1.0	27.0	0	99.7
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	7.3	1.0	29.0	0	100.0
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	8.0	1.0	37.0	0	100.0
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	M	Yes	Yes	7.5	1.0	42.0	0	100.0
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	14.0	2.0	168.0	0	100.0
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	Yes	Yes	8.3	1.0	29.0	0	40.1
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	M	Yes	Yes	6.5	1.0	27.0	0	99.2
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	M	Yes	Yes	6.8	1.0	26.0	0	100.0
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	M	Yes	Yes	7.1	1.0	28.0	0	99.6
Blackgrounds	450846, 248413	Blackgrounds, West Northamptonshire	M	Yes	Yes	23.4	1.0	242.0	4	30.5

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

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
Blackgrounds	27/08/2025: 15:01 - 16:00; 218 µg/m³ 17:01 - 18:00; 242 µg/m³ 28/08/2025: 17:01 - 18:00; 228 µg/m³ 30/08/2025: 11:01 - 12:00; 219 µg/m³	Exceedances were investigated and found not to be linked to a precise activity on site but due to the dry and hot weather, causing dust to develop faster than mitigation measures were able to dampen.	The site team has been asked to further dampen down dust in the area with more spraying. These were all isolated incidences which did not trigger any complaints.

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



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