

Air Quality and Dust Monitoring Monthly Report – April 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.

High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

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 April 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 Complete approach backfilling and land parapets on approaches
- Brackley Culvert installation.

Greatworth Hall

- Crushing and screening
- Excavate and replace at Greatworth South Cutting
- Main excavation works at Greatworth South Cutting
- Drainage works
- AN37 Preparation for beam delivery and installation.
- AN14 dismantling working platforms and reinstate permanent excavation.
- Stockpile management.

Greatworth To Southam

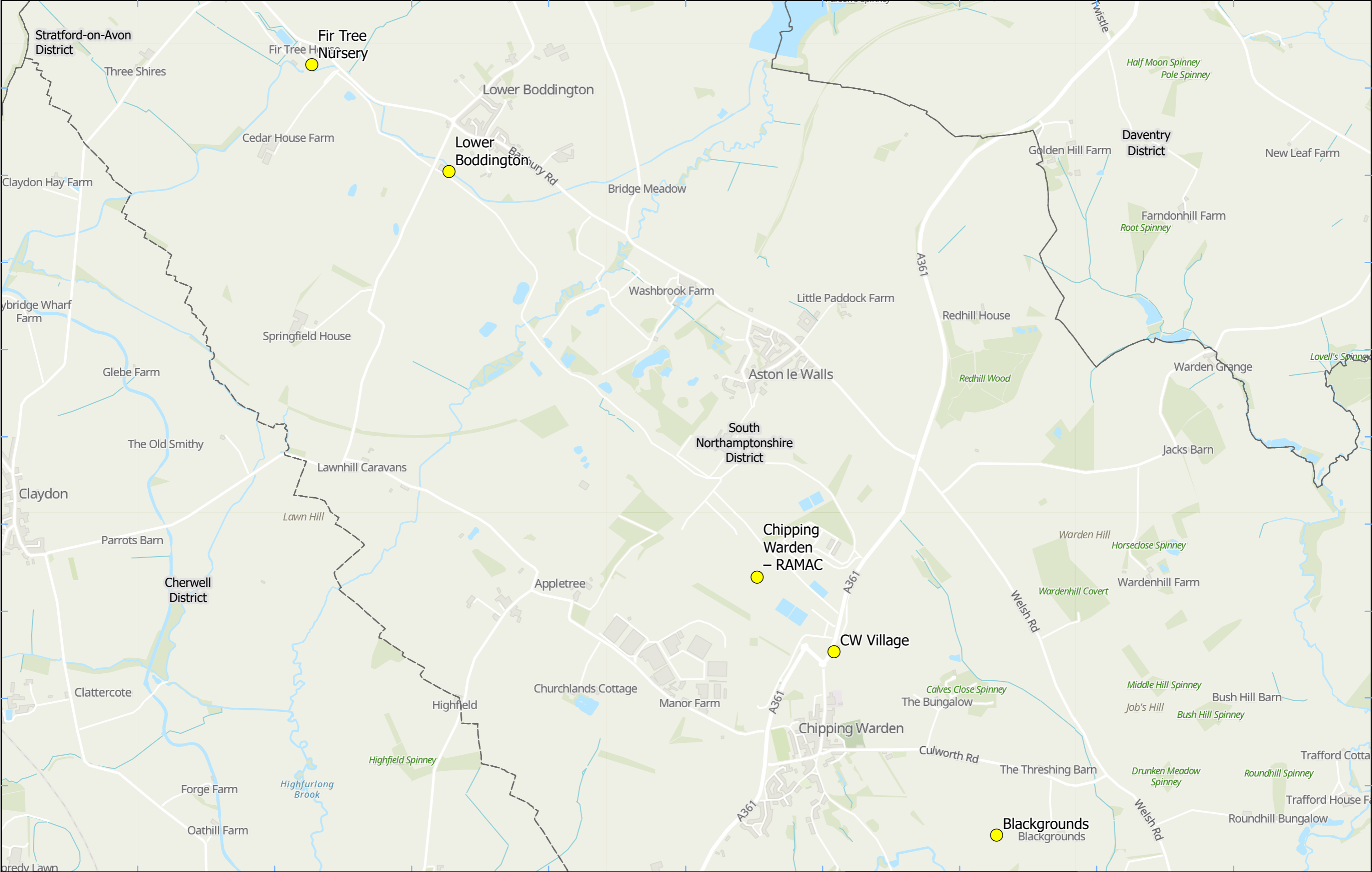
- Water management, drone surveying and T&M refilling
- Greatworth Batching plant water management and drainage
- Edgcote viaduct bulk earthworks

- Bulk earthworks across G2S South
- Chipping Warden Compound
- Footpath SM101 Green Overbridge
- Oxford Canal Culvert
- Edgcote cutting
- Chipping Warden Green Tunnel
- Aston le walls Embankment
- High Furlong Brook Embankment / High furlong Brook Via duct
- Lower Boddington Embankment
- A361 break from highway works Claydon Road Highways
- Boddington Cutting
- Lower Thorpe viaduct
- Greatworth Batching Plant - water management
- Edgcote viaduct - river diversion
- SAR repairs
- Culworth Grounds Overbridge (AG8)

- 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 (April 2025).
- 1.1.9 There were no (0) complaints received during the reporting period (April 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)**

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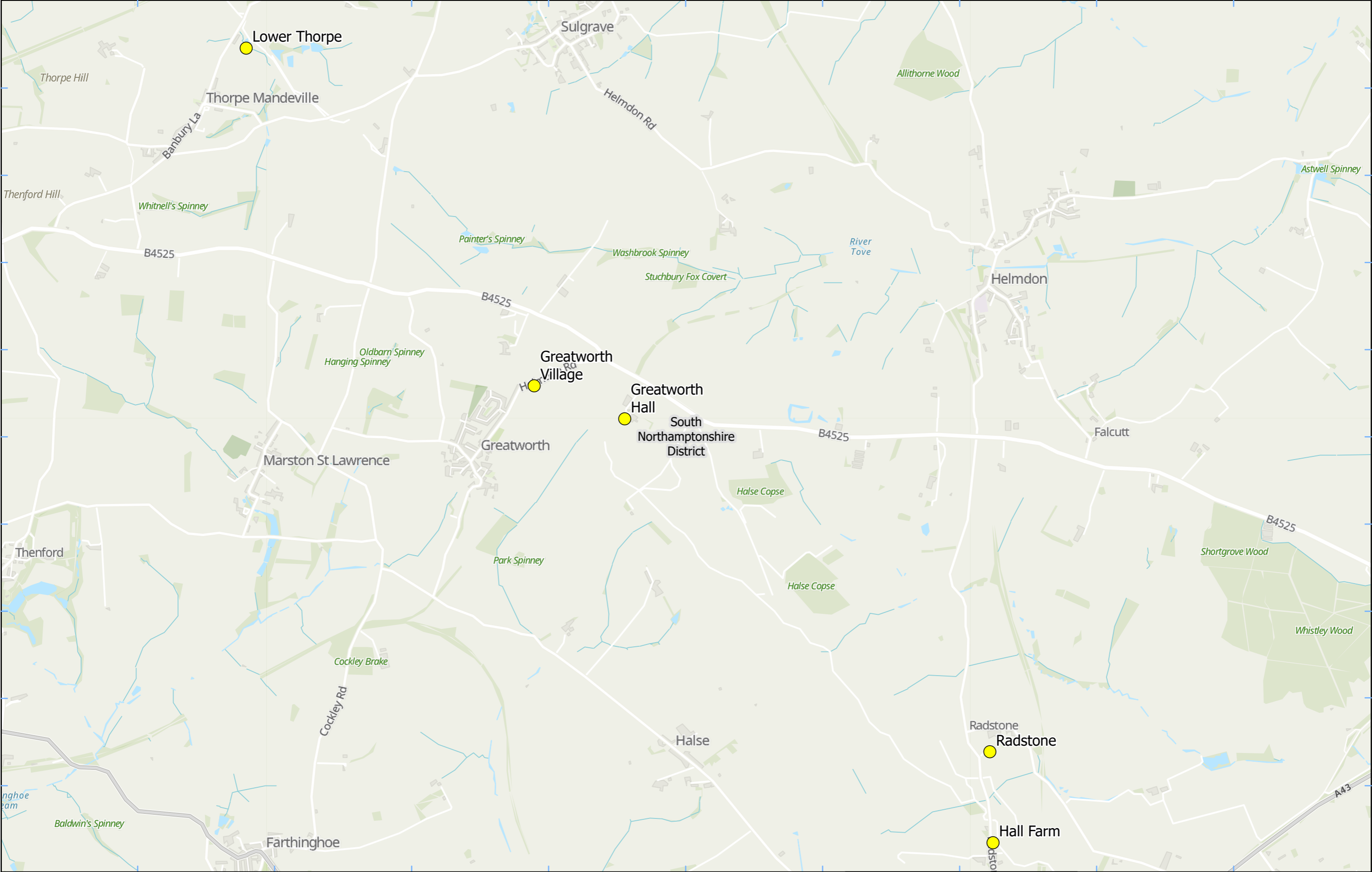
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Scale at A3: 1:18,000

Metres

Date: 20/06/24



Legend

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number

Map Name

**Monitoring Locations
In WNDC (Sheet 2)**

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Scale at A3: 1:24,000



Metres

Date: 20/06/24

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	12.3	1.0	63.0	0	100.0
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	10.5	1.0	45.0	0	99.7
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	10.8	1.0	45.0	0	100.0
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	M	Yes	Yes	9.6	1.0	39.0	0	100.0
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	9.8	1.0	46.0	0	97.1
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	Yes	Yes	11.7	1.0	52.0	0	99.9
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	M	Yes	Yes	9.9	1.0	47.0	0	99.7
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	M	Yes	Yes	9.8	1.0	45.0	0	99.9
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	M	Yes	Yes	9.7	1.0	61.0	0	99.9
Blackgrounds	450846, 248413	Blackgrounds, West Northamptonshire	M	Yes	Yes	9.5	1.0	44.0	0	100.00

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

