

## Air Quality and Dust Monitoring Monthly Report – February 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](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://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 February 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](https://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

- Topsoil Stripping
- Stockpile management
- Bulk Excavation
- Site Access Road/ Haul Road use and maintenance
- Drainage sop
- Works associated with the permanent diversion of Radstone Road.
- Works associated with the temporary diversion of Radstone Road.
- AX15 approach structures slab foundation construction
- A43 Highway Weekend Closure 9pm 28<sup>th</sup> Feb 25 – 6am 3<sup>rd</sup> March 25.

### Greatworth Hall

- Topsoil stripping
- Stockpile management
- Utilisation & maintenance of Site Access Road (SAR) and Haul Road.
- Crushing and screening
- Bulk excavation
- Drainage works
- AN37 Pier backfilling and pier column construction
- AN14 parapets installation and transition structures construction.

## **Greatworth To Southam**

### 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 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 (February 2025).

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

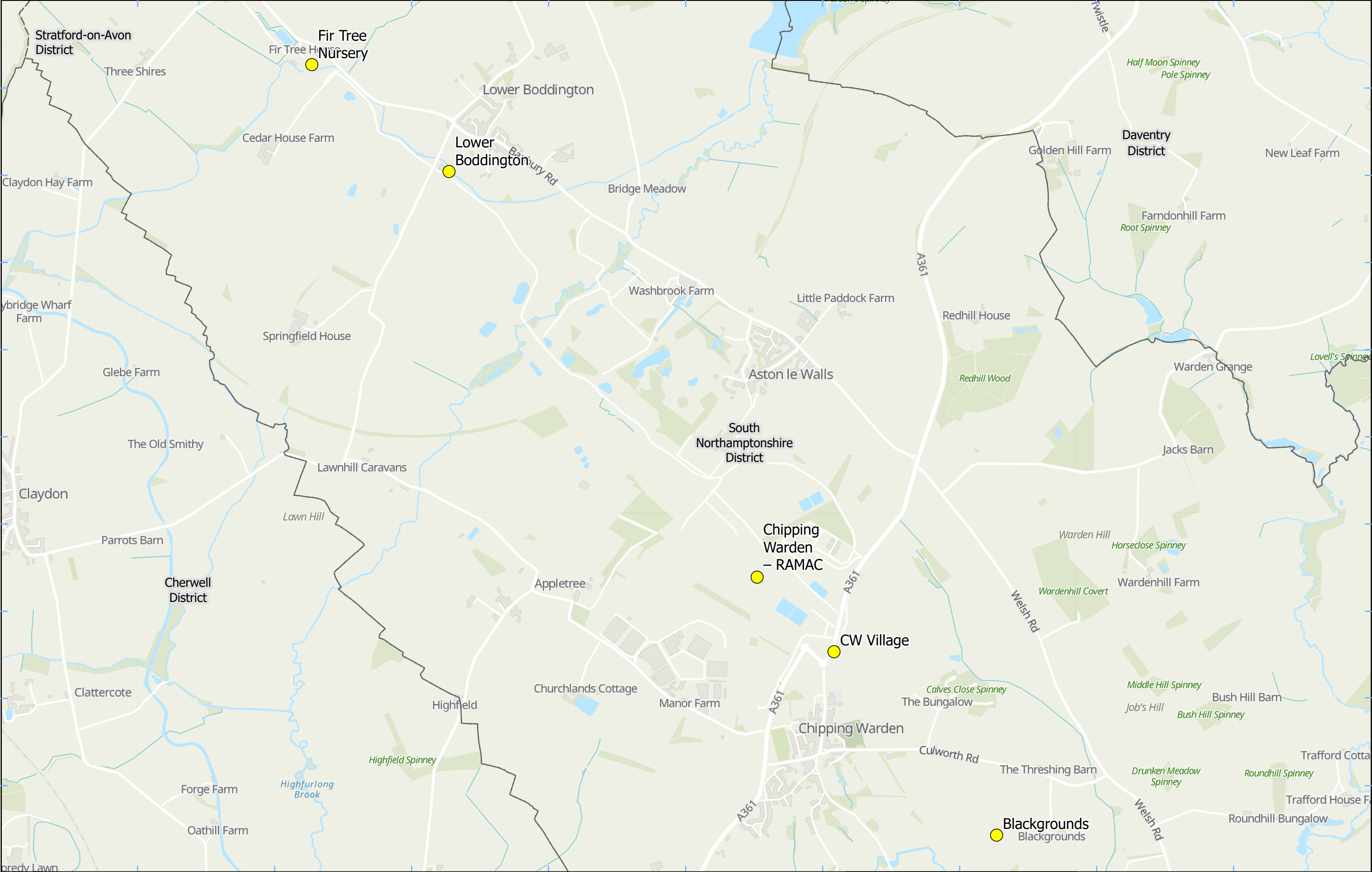
- Low data capture at the Radstone monitor was due to a battery fault throughout the month. Access to location was difficult and unsafe to replace batteries at various times due to heavy plant movement in the area.
- Low data capture at the Hall Farm during this month was due to battery fault.
- Intermittent data capture at Greatworth Hall monitor during this month was due to a battery fault.
- Data capture at the Chipping Warden – RAMAC monitor was 59.23% for the month of February 2025. Very low data capture from 1st to 12th February was due to monitor issue and battery fault. The battery was replaced on 12th February.

- Data capture at the Chipping Warden Village monitor was 86.76% for the month of February 2025. No data capture from 9th to 12th February due to a battery fault.
- Data capture at the Lower Boddington monitor was 81.85% for the month of February 2025. Intermittent data capture during this month was due to a battery fault.
- Data capture at the Fir Tree Nursery monitor was 74.40% for the month of February 2025. Low data capture during this month was due to a battery fault.
- Data capture at Greatworth Village monitor was 99.55% for the month of February 2025.
- Data capture at the Lower Thorpe monitor was 93.60% for the month of February 2025. No data capture from 9th to 11th February due to a battery fault.
- Data capture at the Blackgrounds monitor was 71.13% for the month of February 2025. Low data capture was 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 (February 2025).

# 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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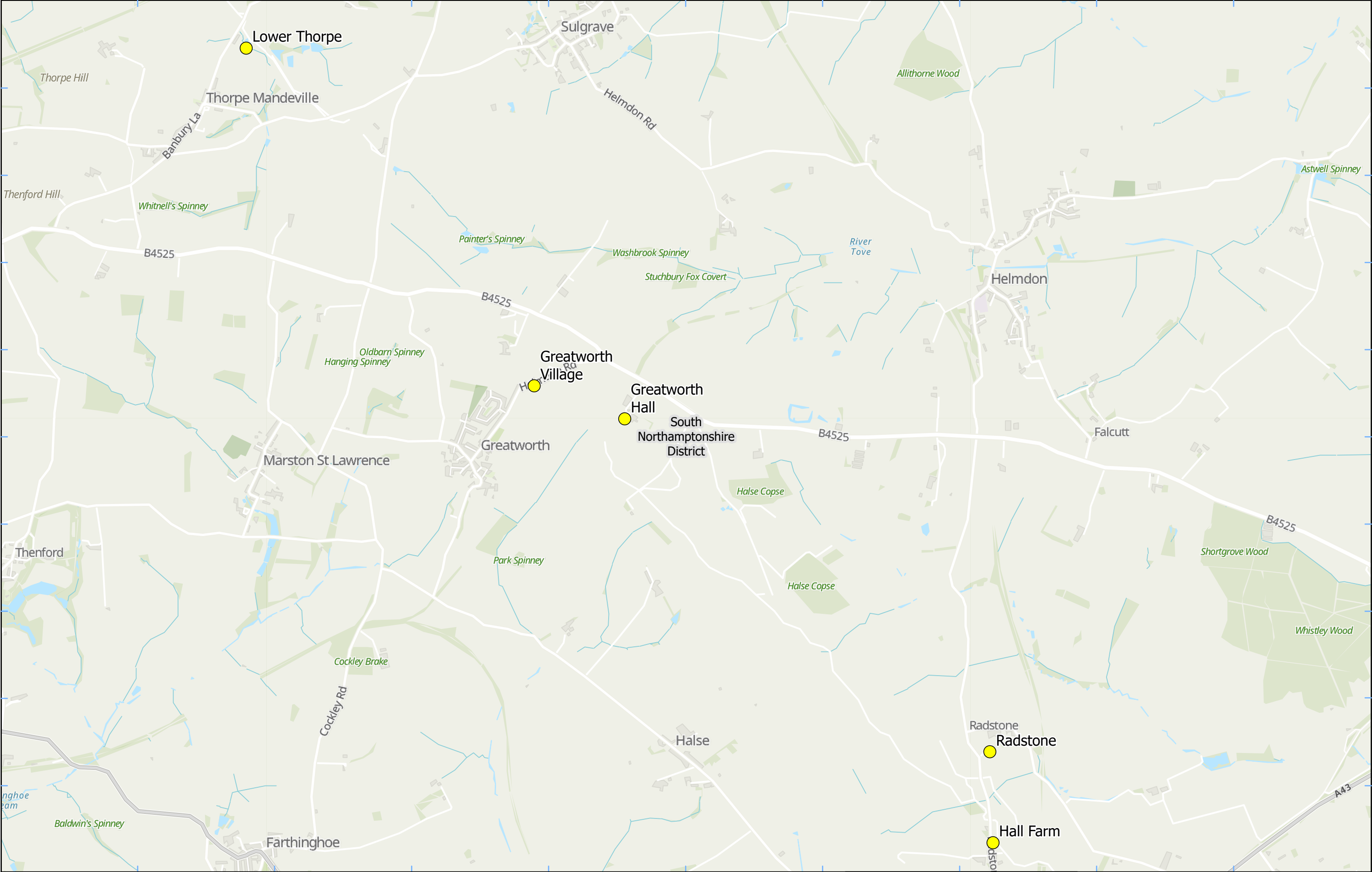
**Doc Number:**

Scale at A3: 1:18,000

Metres

**Date: 20/06/24**





**Legend**

 Dust Monitor

 District Borough Unitary Boundaries

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Contains data from OS Zoomstack

Map Number

Map Name

Monitoring Locations  
In WNDC (Sheet 2)

West Northamptonshire District  
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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 <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>	1-hour data capture (%)
Chipping Warden – RAMAC	449600, 249755	Chipping Warden, West Northamptonshire	M	Yes	Yes	15.1	1.0	68.0	0	59.2
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	14.4	1.0	62.0	0	86.8
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	13.8	1.0	65.0	0	81.8
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	M	Yes	Yes	12.7	1.0	62.0	0	74.4
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	12.4	1.0	54.0	0	59.2
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	Yes	Yes	13.9	1.0	58.0	0	76.0
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	M	Yes	Yes	15.4	1.0	62.0	0	99.6
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	M	Yes	Yes	14.5	1.0	60.0	0	93.6
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	M	Yes	Yes	12.4	1.0	49.0	0	82.1
Blackgrounds	450846, 248413	Blackgrounds, West Northamptonshire	M	Yes	Yes	14.3	1.0	50.0	0	71.1

Figure 3: Continuous dust 1-hour mean indicative PM<sub>10</sub> concentration for all monitors



