

Air Quality and Dust Monitoring Monthly Report – September 2024

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.

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2024, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v2.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/version/2 **OGI** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



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 September 2024.

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:

Southam worksite

- Compound maintenance
- Site access road and haul road construction/maintenance
- Utilisation of haulage road for moving material
- Drainage and temporary ponds
- Water management
- General earthworks (bulk and topsoil strip)
- Stockpile management
- Utilities (HDD and Opencut)
- Vegetation clearance and maintenance
- General structures (viaducts, green tunnels, overbridges, culverts).

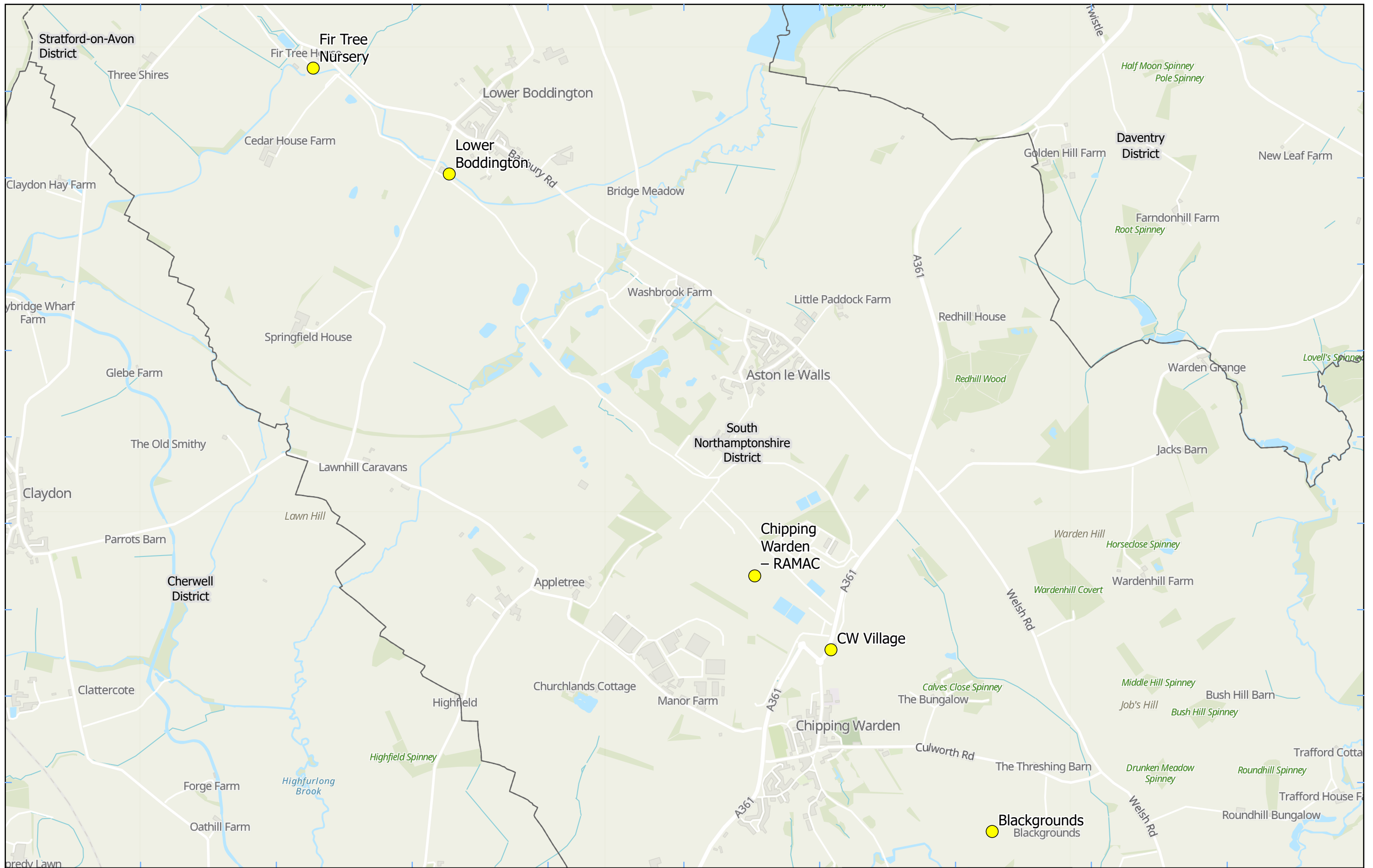
1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.

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 (September 2024).
- 1.1.9 There were no (0) complaints received during the reporting period (September 2024).

Appendix A – Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within WNDC



Legend

- Dust Monitor
- District Borough Unitary Boundaries

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023
Contains data from OS Zoomstack

Map Number

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

**West Northamptonshire District
Council**

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.

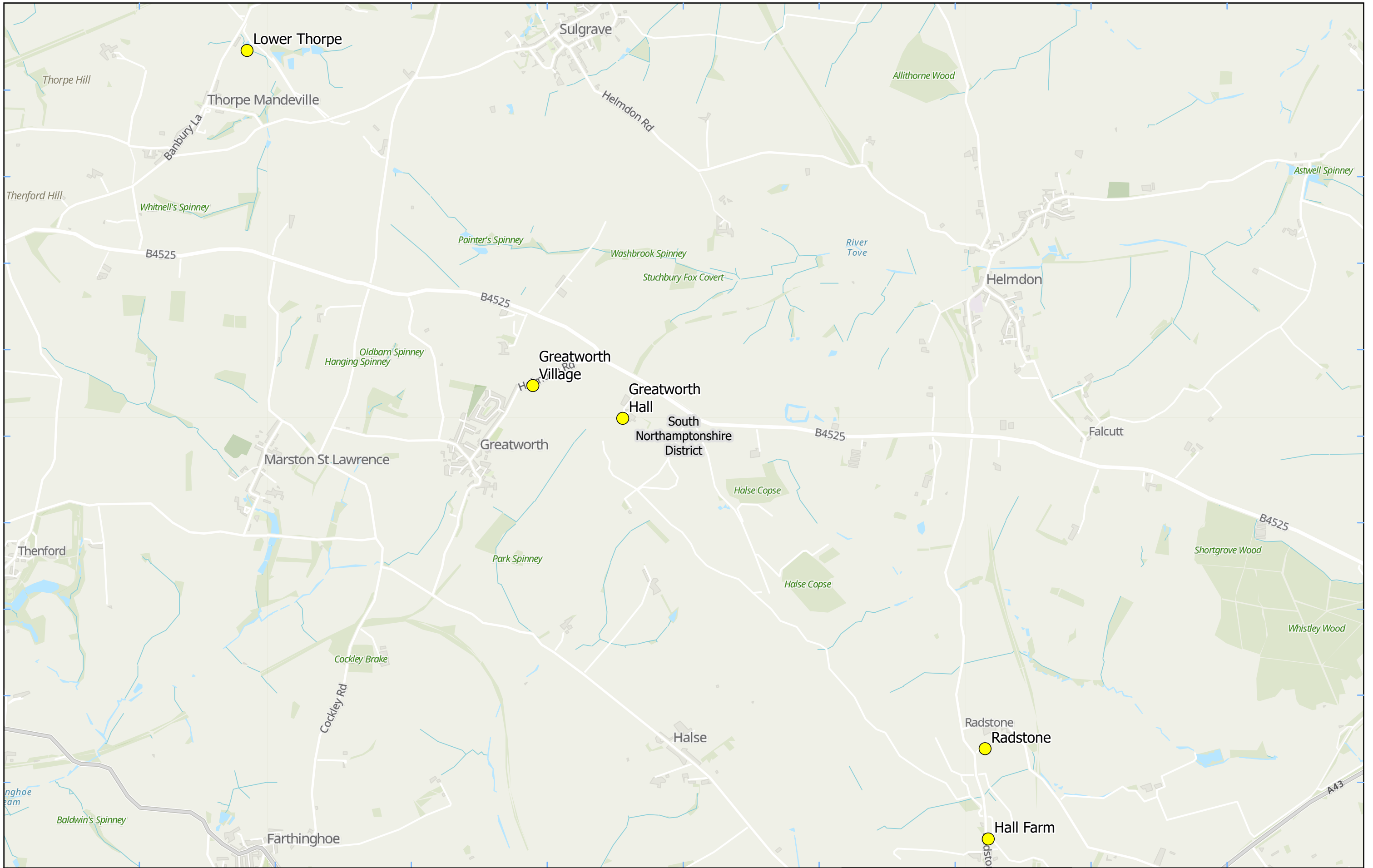
Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

© Crown copyright and database rights 2024.
Ordnance Survey Licence Number 100049190.

Scale at A3: 1:18,000

Metres

Doc Number: **Date: 20/06/24**



Legend

- Dust Monitor
- District Borough Unitary Boundaries

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023
Contains data from OS Zoomstack

Map Number

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

**West Northamptonshire District
Council**

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.

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

© Crown copyright and database rights 2024.
Ordnance Survey Licence Number 100049190.

Doc Number:

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 | 9.9 | 1.0 | 54.0 | 0 | 96.8 |
| CW Village | 450000, 249367 | Chipping Warden, West Northamptonshire | M | Yes | Yes | 9.4 | 1.0 | 49.0 | 0 | 99.2 |
| Lower Boddington | 447997, 251865 | Lower Boddington, West Northamptonshire | M | Yes | Yes | 9.5 | 1.0 | 51.0 | 0 | 98.8 |
| Fir Tree Nursery | 447283, 252421 | Fir Tree Nursery, West Northamptonshire | M | Yes | Yes | 9.1 | 1.0 | 54.0 | 0 | 99.7 |
| Radstone | 458712, 240454 | Radstone Road, Brackley, West Northamptonshire | M | Yes | Yes | 8.5 | 1.0 | 43.0 | 0 | 99.6 |
| Hall Farm | 458734, 239823 | Hall Farm, Radstone Road | M | Yes | Yes | 9.5 | 1.0 | 47.0 | 0 | 99.6 |
| Greatworth Village | 455551, 242992 | Greatworth Village, Helmdon Road, | M | Yes | Yes | 8.7 | 1.0 | 48.0 | 0 | 99.4 |
| Lower Thorpe | 453553, 245334 | Banbury Lane, Lower Thorpe | M | Yes | Yes | 9.0 | 1.0 | 47.0 | 0 | 93.8 |
| Greatworth Hall | 456179, 242763 | Greatworth Hall, Greatworth | M | Yes | Yes | 8.7 | 1.0 | 45.0 | 0 | 99.4 |
| Blackgrounds | 450846, 248413 | Blackgrounds, West Northamptonshire | M | Yes | Yes | 8.9 | 1.0 | 47.0 | 0 | 99.0 |

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

