

## Air Quality and Dust Monitoring Monthly Report – March 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.

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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 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](http://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;
- Concreting at Radstone Road;
- Works associated with the permanent diversion of Radstone Road; and
- Works associated with the temporary diversion of Radstone Road.

### Greatworth Hall

- Topsoil stripping;
- Stockpile management;
- Utilisation & maintenance of Site Access Road (SAR) and Haul Road;
- Crushing and screening;
- Bulk excavation;
- Drainage; and
- Piling at AN37.

## **Greatworth To Southam**

### Chipping Warden – RAMAC

- Chipping warden Green tunnel PCC erection;
- Green Tunnel maintenance for PCC erection;

- 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; and
- Plant maintenance.

#### CW village

- Water management; and
- Surveying.

#### Lower Boddington

- Topsoil stripping;
- Claydon road overbridge;
- Nursery site feeder canal culvert;
- Stockpile management;
- Site Access Road maintenance;
- Utilisation of haulage road for moving material;;
- Drainage and temporary ponds;
- Vegetation maintenance;
- Highfurlong brook viaduct;
- Bulk excavation – cutting;
- Claydon road overbridge;
- Claydon road highways;
- Lower Boddington Landscape fill;
- Water management (Checking pumps); and
- Ditch maintenance.

#### Fir Tree Nursery

- Topsoil stripping;
- Stockpile management;
- Site Access Road maintenance;
- Utilisation of haulage road for moving material;
- Drainage and temporary ponds;
- Vegetation maintenance;

- Site access road maintenance;
- Water management;
- Ditch maintenance;
- Nursery site feeder canal; and
- Boddington highways.

#### Greatworth Village

- Site Access Road maintenance;
- Utilisation of haulage road for moving material;
- Drainage and temporary ponds;
- Bulk earthworks;
- Structures (Lower Thorpe Viaduct);
- AG09 and AG10 overbridges;
- HDD works (Spiders Web);
- Permanent culverts; and
- Greatworth Green Tunnel works.

#### Lower Thorpe

- Site Access Road maintenance;
- Utilisation of haulage road for moving material;
- Drainage and temporary ponds;
- Bulk earthworks;
- Structures (Lower Thorpe Viaduct);
- AG09 and AG10 overbridges;
- HDD works (Spiders web); and
- Permanent culverts.

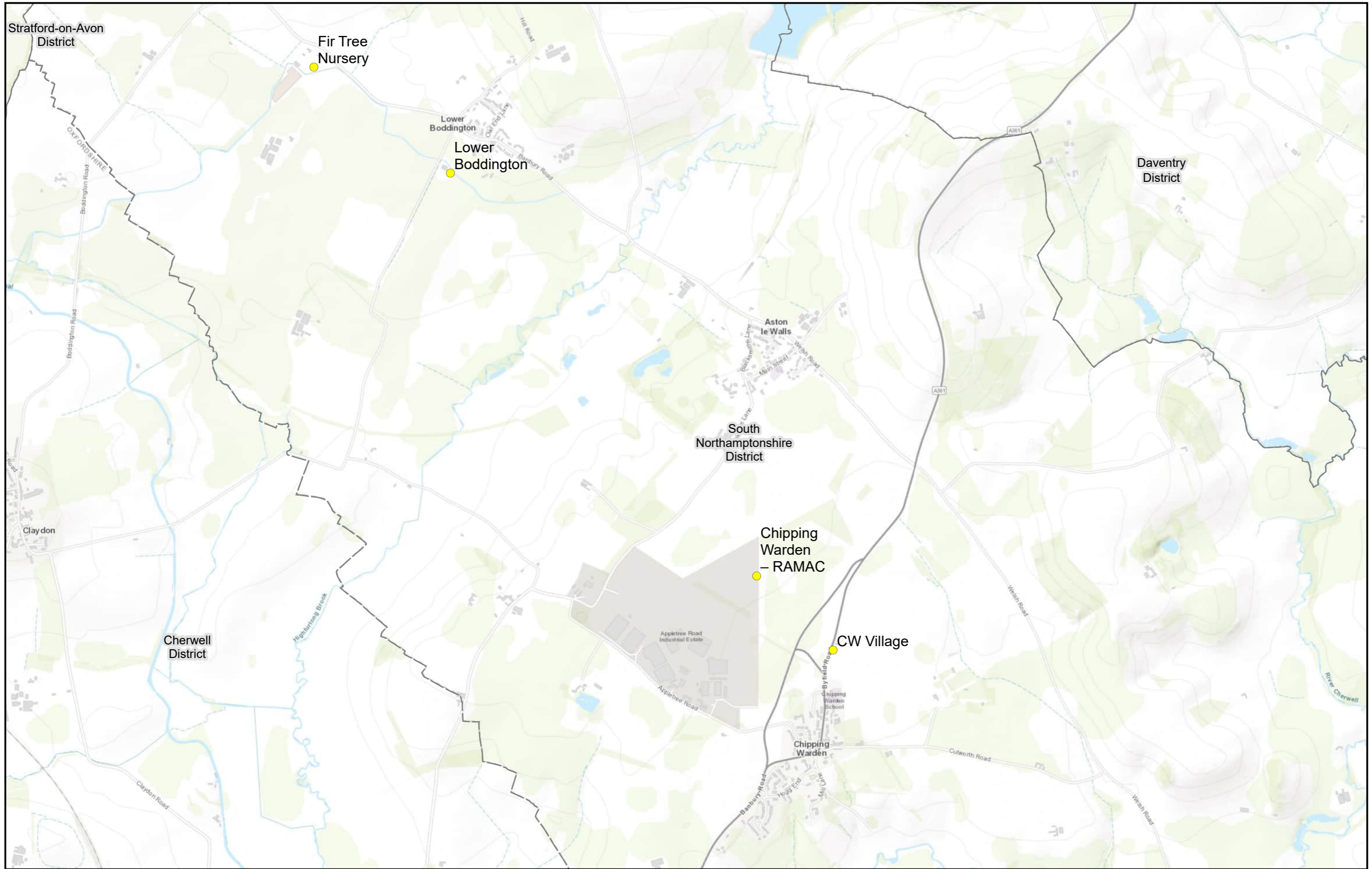
- 1.1.5 Nine (9) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, presented 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 (March 2024).

1.1.9 Data capture was below 90% for multiple monitors in March 2024. Low data capture at the CW Village monitor. This monitor was re-instated on the 9<sup>th</sup> of April 2024. No data was captured at the Greatworth Village monitor for the month of March 2024. Missing data was due to a fault with the communication cable to the noise monitor. No data was captured at the Blackgrounds monitor for the month of March 2024. This was due to the monitor being retrieved due to a solar fault. Data capture at the Radstone monitor was low due to a battery and PT10 fault with the monitor.

1.1.10 There were no (0) complaints received during the reporting period (March 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: World Topographic Map: Esri UK, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA

Map Number  
 Map Name  
**Monitoring Locations  
 In WNDC (Sheet 1)**  
 West Northamptonshire Council

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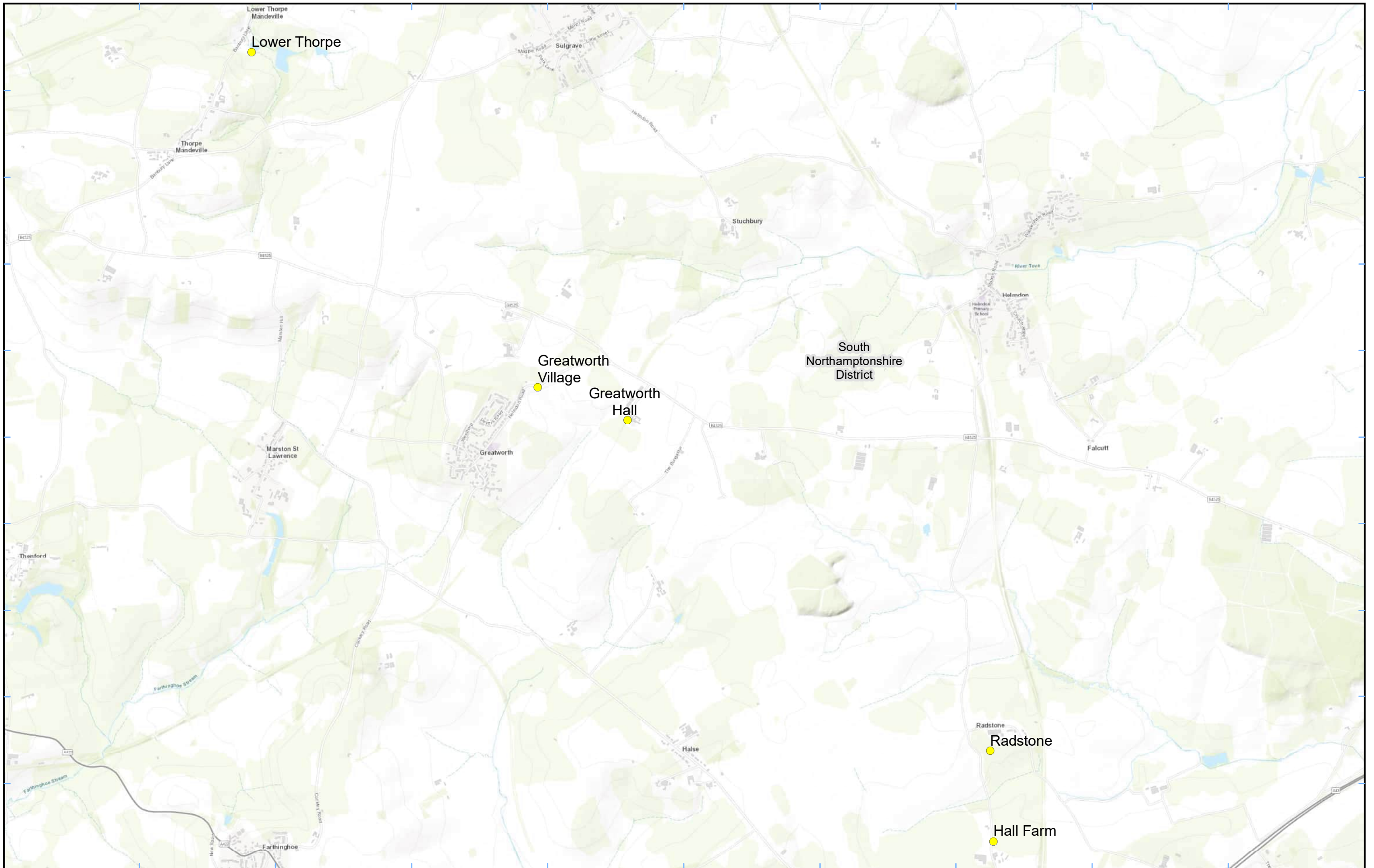
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**Legend**

- Dust
- District Borough Unitary Boundaries

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Map Number

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

**West Northamptonshire Council**

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## Appendix B – Dust Monitoring Results

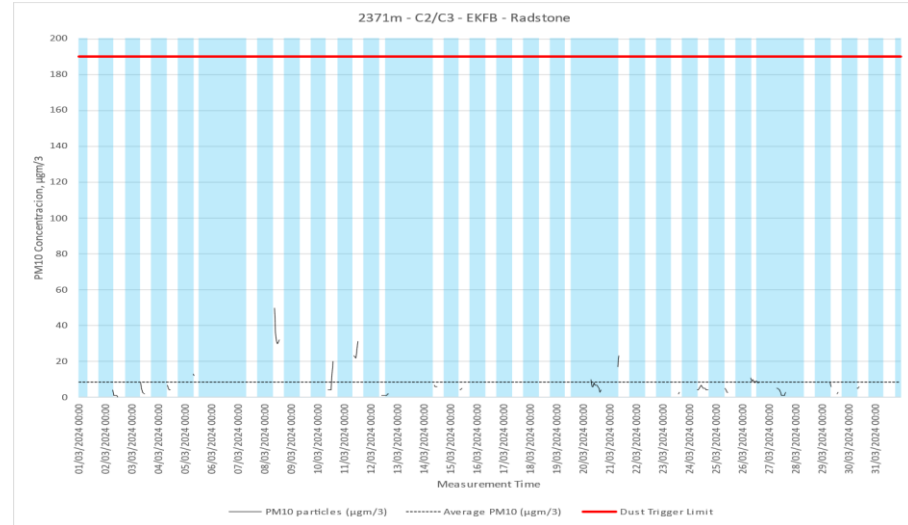
Table 1: Dust Monitoring Locations and Results

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 <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	9.8	1.0	79.0	0	98.31
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	10.1	1.0	76.0	0	71.51
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	10.1	1.0	90.0	0	99.60
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	M	Yes	Yes	9.7	1.0	93.0	0	99.87
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	8.3	1.0	64.0	0	14.25
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	No	No	-	-	-	-	-
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	M	No	Yes	-	-	-	-	-
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	M	Yes	Yes	9.3	1.0	74.0	0	99.73
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	M	No	No	-	-	-	-	-

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



Radstone



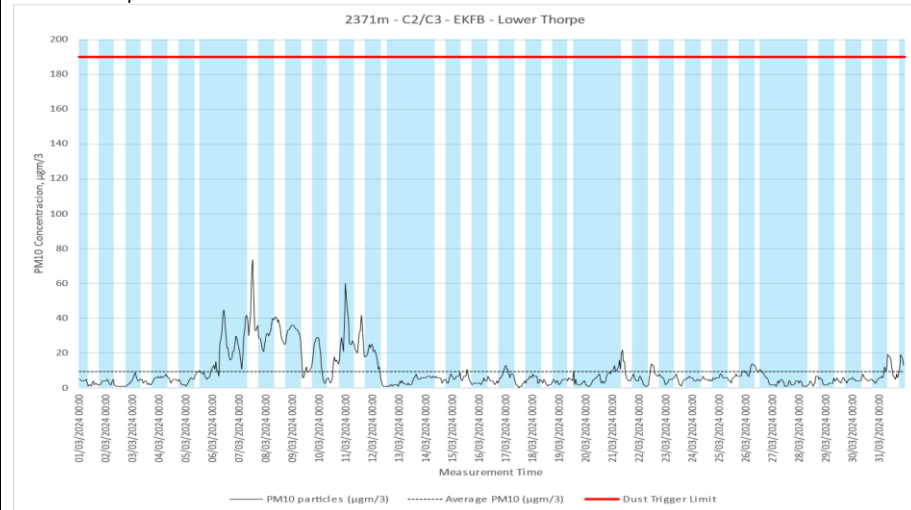
Hall Farm

NO DATA CAPTURED FOR MARCH 2024

Greatworth Village

NO DATA CAPTURED FOR MARCH 2024

Lower Thorpe



Greatworth Hall  <i>NO DATA CAPTURED FOR MARCH 2024</i>	
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