

# Air Quality and Dust Monitoring Monthly Report - September 2023

West Northamptonshire District Council



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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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 September 2023.
- 1.1.2 Figure 1 and Figure 2 in Appendix A present the current worksites together with the dust monitoring locations for September 2023.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report available from <a href="www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2">www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2</a>, 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, Figures 1 to 2, include:

#### **Twyford to Greatworth**

• No works were undertaken in this reporting period.

#### **Greatworth To Southam**

#### <u>Chipping Warden – RAMAC</u>

- 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
- General maintenance
- Stockpile management
- Vegetation maintenance
- Site Access Road maintenance
- Compound maintenance
- Water management
- Ditch maintenance
- Plant maintenance
- Material processing

#### CW village

- Chipping warden Green tunnel PCC erection
- Green Tunnel maintenance for PCC erection
- Chipping warden green tunnel Structural backfill
- Chipping warden green tunnel Waterproofing
- Chipping Warden earthworks Soil Swap area
- Bulk earthworks
- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Chipping warden batching plant
- · General maintenance
- Stockpile management
- Vegetation maintenance
- Site Access Road maintenance
- Compound maintenance
- Water management
- Ditch maintenance
- Plant maintenance
- Material processing

#### **Lower Boddington**

- Topsoil stripping
- Claydon road overbridge
- 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
- Lower Boddington Landscape fill
- Water management (Checking pumps)
- Ditch maintenance

#### Fir Tree Nursery

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

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- Vegetation maintenance
- Site access road maintenance
- Water management
- Ditch maintenance
- Cedars farm BT diversion
- Boddington highways

#### **Greatworth Village**

- Stockpile management
- Site Access Road maintenance
- Utilisation of haulage road formoving material
- Drainage and temporary ponds
- Earthworks and soilstrip ongoing
- Piling in Edgcote/Culworth
- General maintenance

#### **Lower Thorpe**

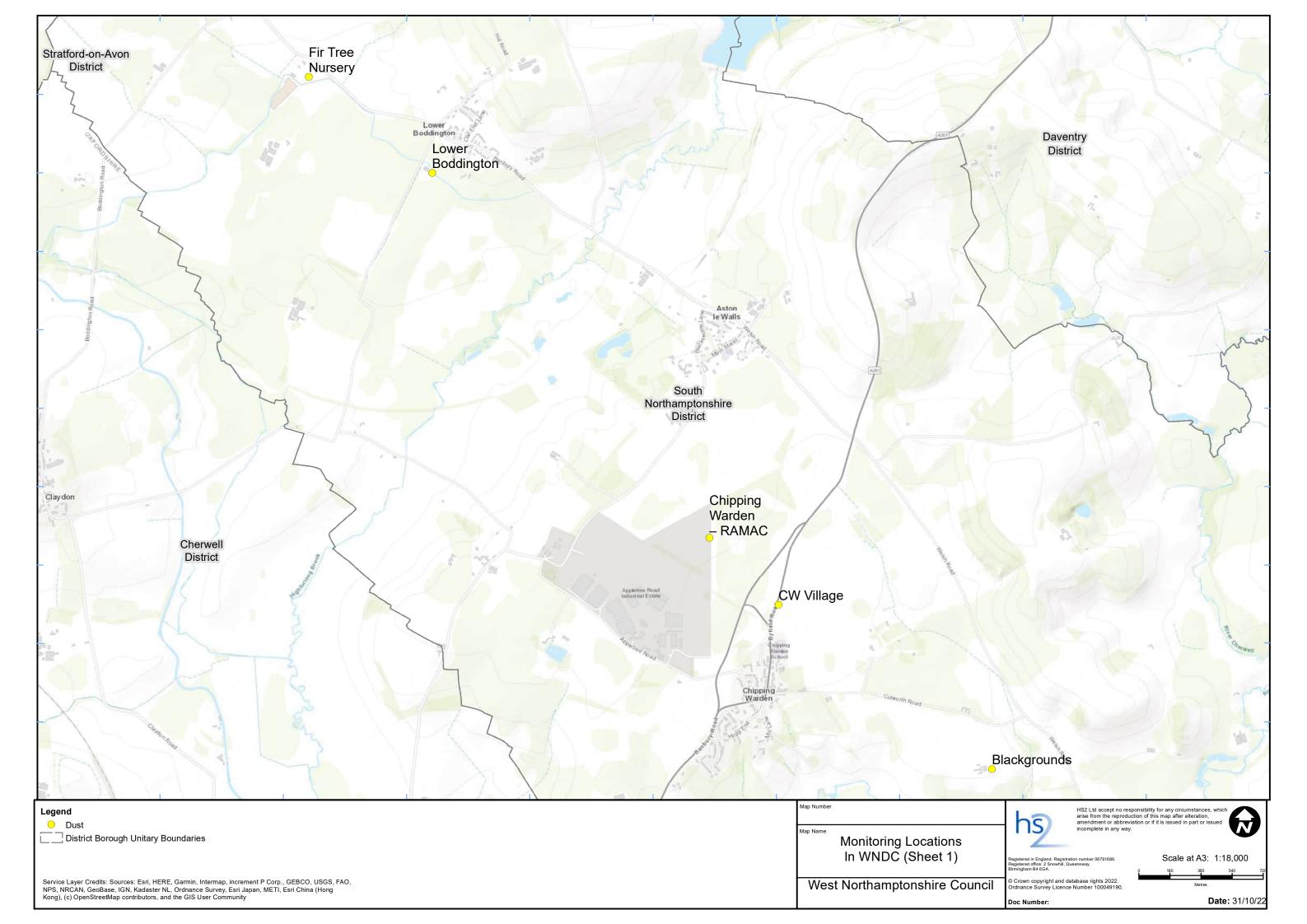
- Stockpile management
- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Drainage and temporary ponds
- Earthworks and soilstrip ongoing
- Piling in Edgcote/Culworth
- General maintenance
- 1.1.5 Ten (10) dust monitors are installed around the worksites, where works are 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 a line chart of monthly data from the 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/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 2023).

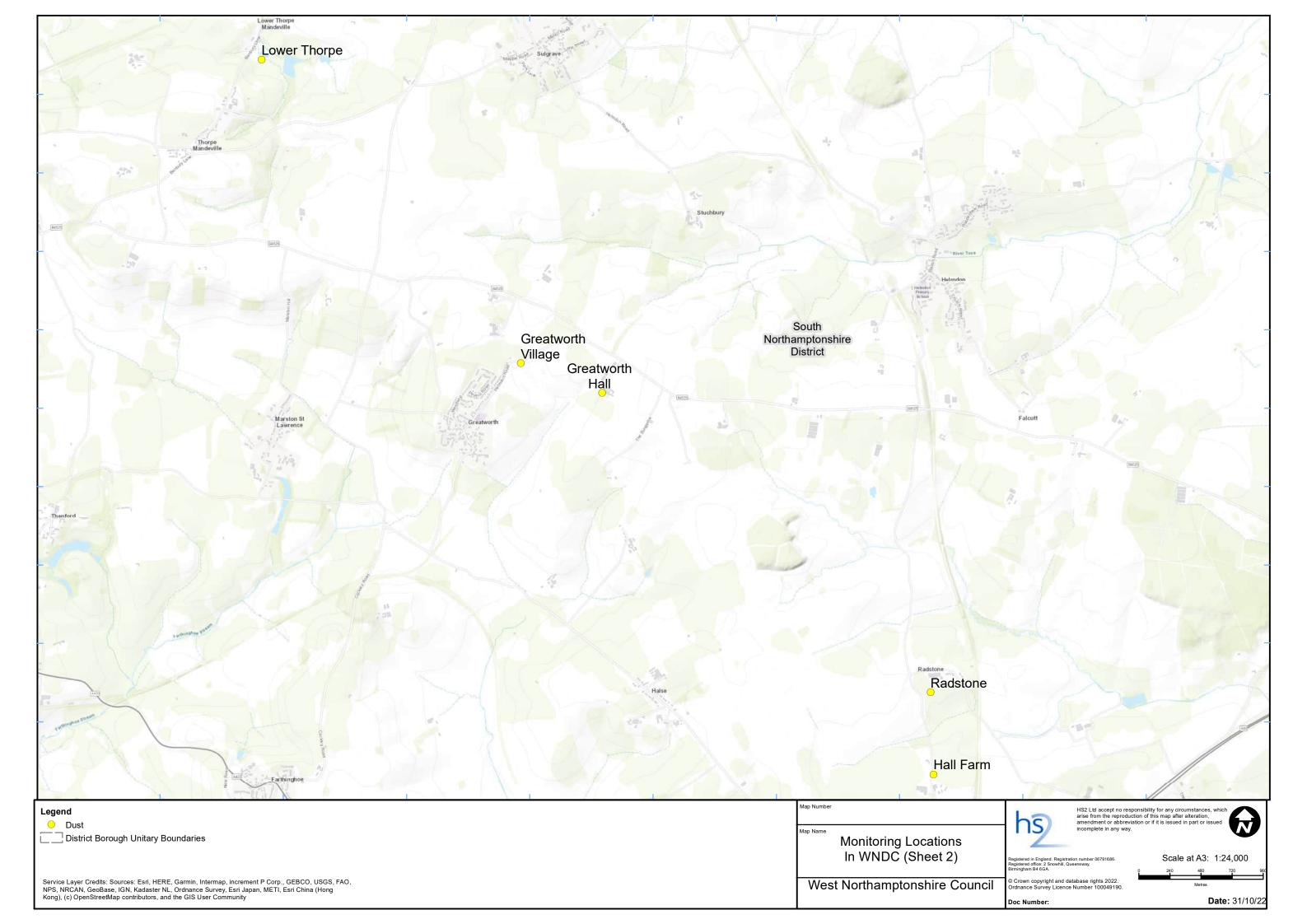
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- 1.1.9 Data capture was below 90% for Radstone and Lower Thorpe monitors due to a battery fault and a fault with the PT10 solar component (repaired on 10<sup>th</sup> October 2023). No data was captured at the Blackgrounds monitor for the month of September 2023. This was due to a solar controller fault with the monitor.
- 1.1.10 There were no (0) complaints received during the reporting period (September 2023).

## **Appendix A - Monitoring Locations**

Figures 1 and 2: Worksite and Monitoring locations within WNDC





## **Appendix B - Dust Monitoring Results**

Table 1: Dust monitoring locations and September 2023 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/m³)	Minimum 1- hour PM <sub>10</sub> concentration (μg/m³)	Maximum 1- hour PM <sub>10</sub> concentration (μg/m³)	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	8.1	1.0	47.0	0	100.0
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	М	Yes	Yes	8.7	1.0	51.0	0	91.3
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	М	Yes	Yes	7.8	1.0	50.0	0	99.9
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	М	Yes	Yes	7.9	1.0	45.0	0	100.0
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	М	Yes	Yes	8.9	1.0	48.0	0	23.9
Hall Farm	458734, 239823	Hall Farm, Radstone Road	М	Yes	Yes	9.7	1.0	73.0	0	99.9
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	М	Yes	Yes	8.1	1.0	48.0	0	99.6
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	М	Yes	Yes	9.1	3.0	33.0	0	5.8
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	М	Yes	Yes	8.5	1.0	48.0	0	93.5
Blackgrounds	450846, 248413	Blackgrounds, West Northamptonshire	М	Yes	Yes	-	-	-	-	-

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





