

Air Quality and Dust Monitoring Monthly Report – May 2022

West Northamptonshire District Council



Department for Transport

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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 Council (WNDC) area during May 2022.
- 1.1.2 Figures 1 and 2 in Appendix A presents the current worksites together with the dust monitoring locations for May 2022.
- 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, Figures 1 and 2, include:

Twyford to Greatworth (T2G) – Radstone Worksite

- Topsoil stripping
- Bulk excavation – Cutting
- Stockpiling
- Site Access Road
- Compound maintenance
- Drainage, temporary ponds

Greatworth to Southam (G2S)

Chipping Warden - RAMAC worksite

- Excavation for chipping warden green tunnel
- Green tunnel Structure unit placement
- Stockpiling
- Chipping Warden Compound development
- A361 Temporary Overbridge material movement preparation works
- Chipping Warden gate installations
- Installation of waterproofing and blinding

Chipping Warden Village worksite

- Topsoil stripping and material movement
- Chipping Warden Compound development

- Green tunnel Structure unit placement
- Established of site access road
- A361 Temporary Overbridge material movement preparation works
- Excavation for chipping warden green tunnel
- Chipping Warden gate installations
- Installation of waterproofing and blinding

Lower Boddington worksite

- Topsoil stripping and material movement
- Water Management
- Stockpiling

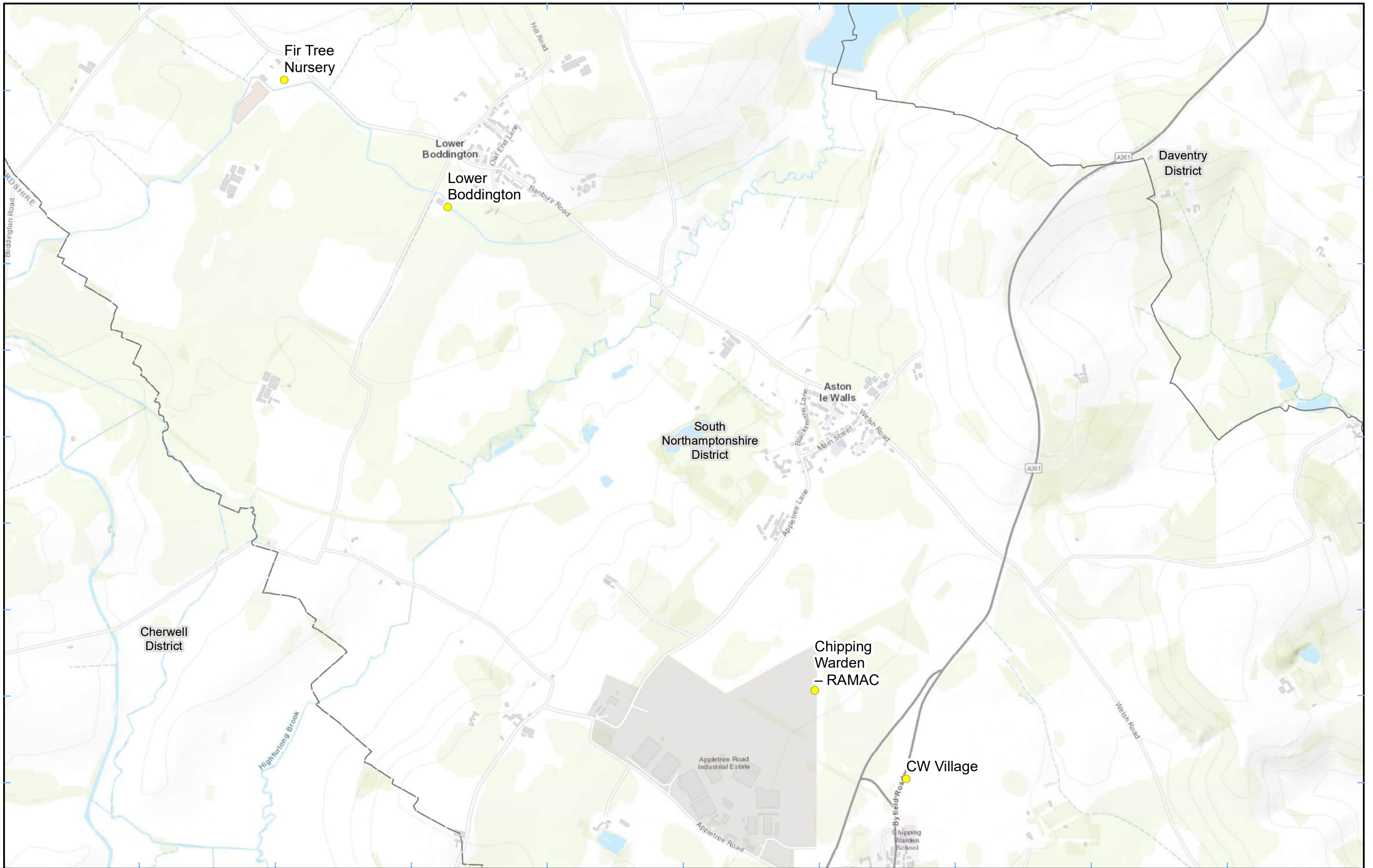
Fir Tree Nursery worksite

- Water Management
- Boddington Canal Feeder realignment
- Established of site access road
- Stockpiling
- Topsoil stripping and material movement

- 1.1.5 Seven (7) dust risk monitors are installed around 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 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 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 Data capture was below 90% for multiple monitors due to intermittent signal issues. The A43 monitor was retrieved from site on the 18th of May 2022 and the Hall Farm monitor was installed on the 18th of May 2022.
- 1.1.9 No (0) dust trigger alerts were recorded during the monitoring period.
- 1.1.10 No (0) complaints were received during this reporting period (May 2022).

Appendix A –Monitoring Locations

Figures 1 and 2: Worksite and monitoring locations within the WNDC



Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries

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

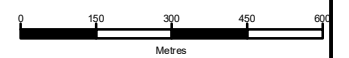


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Legend
 ● Dust Monitor
 - - - District Borough Unitary Boundaries

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Map Number

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

West Northamptonshire Council



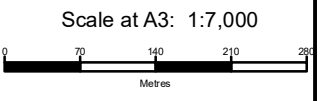
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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and May 2022 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	6.4	1.0	32.0	0	100.0
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	7.1	1.0	32.0	0	100.0
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	7.2	1.0	31.0	0	100.0
A43	459609, 238944	A43, Brackley, West Northamptonshire	M	Yes	Yes	7.1	1.0	24.0	0	56.5
Fir Tree Nursery	447283, 252421	Fire Tree Nursery, West Northamptonshire	M	Yes	Yes	6.8	1.0	29.0	0	99.7
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	7.9	1.0	34.0	0	78.0
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	Yes	Yes	5.2	1.0	10.0	0	9.8

Figure 7: Continuous dust 1-hour mean indicative PM₁₀ concentration for all monitors

