

Air Quality and Dust Monitoring Monthly Report – October 2021

West Northamptonshire District Council



Department for Transport

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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 October 2021.

1.1.2 Figure 1 to Figure 2 in Appendix A indicate the current worksites together with air quality and 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 phase of works commenced in May 2021 and is expected to be completed by 2025. The current worksites, as presented in Appendix A, Figure 1 to Figure 2 include:

Greatworth to Southam (G2S)

- Excavation for chipping warden green tunnel;
- De-vegetation works;
- Drainage and ponds construction;
- Topsoil stripping and material movement; and
- Establishment of the site access road.

Twyford to Greatworth (T2G)

- Topsoil stripping for Brackley South cutting;
- De-vegetation works and utilities diversion;
- Stockpiling;
- Drainage and ponds construction; and
- Development of A43 Compound.

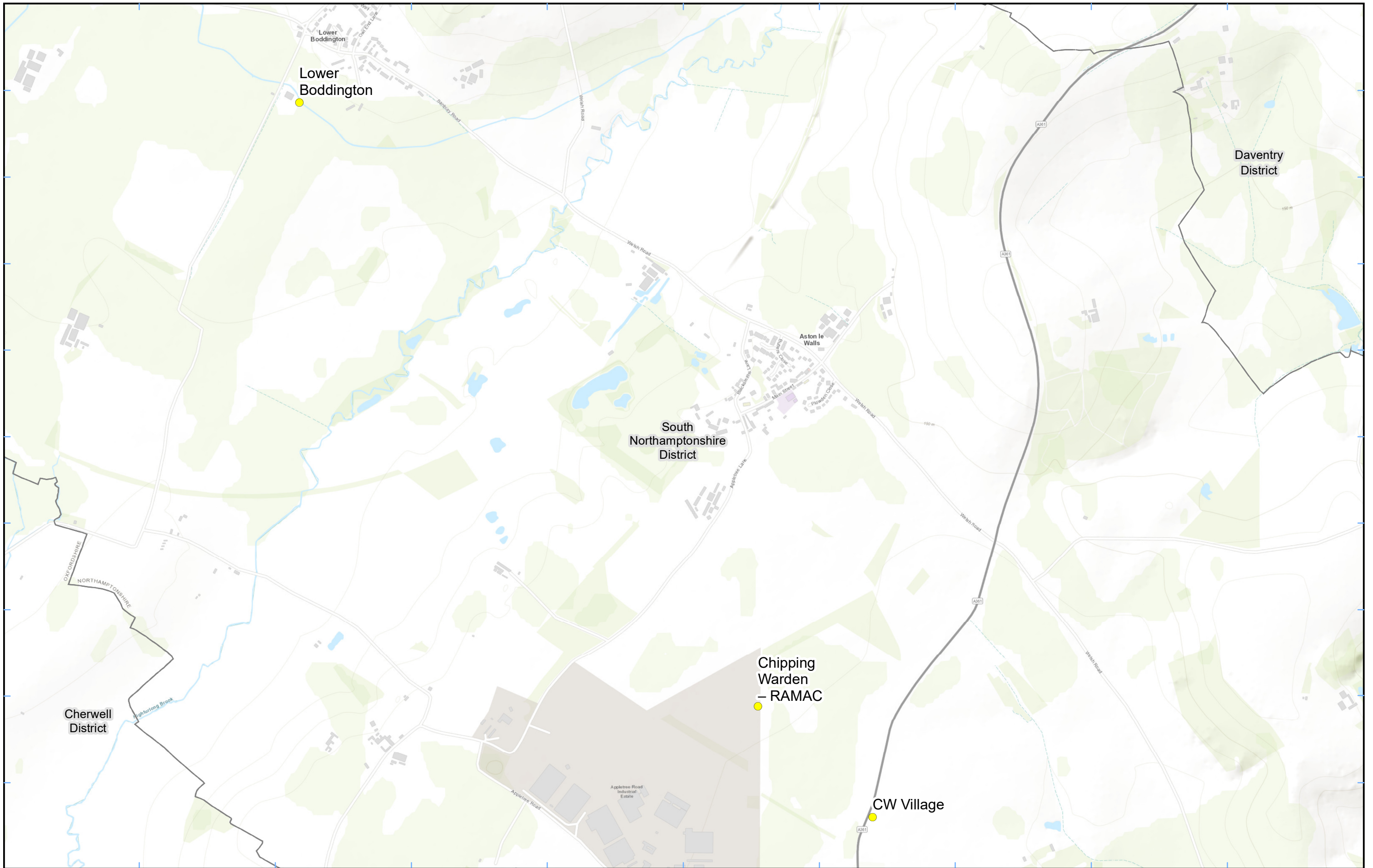
1.1.5 Four (4) dust monitors are installed around worksites, where works are underway. These sites returned a medium dust risk rating.

1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with 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 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 dust trigger alerts were recorded during the monitoring period (October 2021).
- 1.1.9 Data capture was below 90% for multiple monitors in October 2021 due to power supply issues.
- 1.1.10 There were no (0) complaints received during this reporting period.

Appendix A –Monitoring Locations

Figure 1 to Figure 2: Worksite and monitoring locations within the WNDC



Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries

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

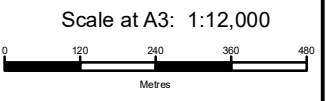


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Legend
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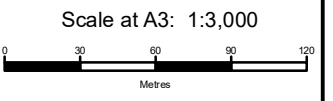
Map Number
 Map Name
**Worksite and Monitoring Locations
 In WNDC (Sheet 2)**
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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and October 2021 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	5.3	1.0	34.0	0	100.0
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	6.1	1.0	28.0	0	34.3
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	3.2	1.0	6.0	0	13.0
A43	459609, 238944	A43, Brackley, West Northamptonshire	M	Yes	Yes	6.0	1.0	41.0	0	100.0

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

