

Air Quality and Dust Monitoring Monthly Report – January 2022

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, 2021, 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 **OGL** 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.



Printed in Great Britain on paper containing at least 75% recycled fibre.

Monthly Summary

- 1.1.0 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) during January 2022.
- 1.1.1 Figures 1 and 2 in Appendix A presents the current worksites together with the dust monitoring locations for January 2022.
- 1.1.2 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.
- 1.1.3 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 and 2 include:

Twyford to Greatworth

- Stone deliveries;
- Drainage and culvert construction;
- Vegetation clearance; and
- A43 Compound development.

Greatworth to Southam (G2S)

- Excavation for chipping warden green tunnel;
- Topsoil stripping and material movement; and
- Established of site access road.

Chipping Warden Compound development

- A361 Break from Highway

Lower Boddington worksite

- Establishment of the site access road

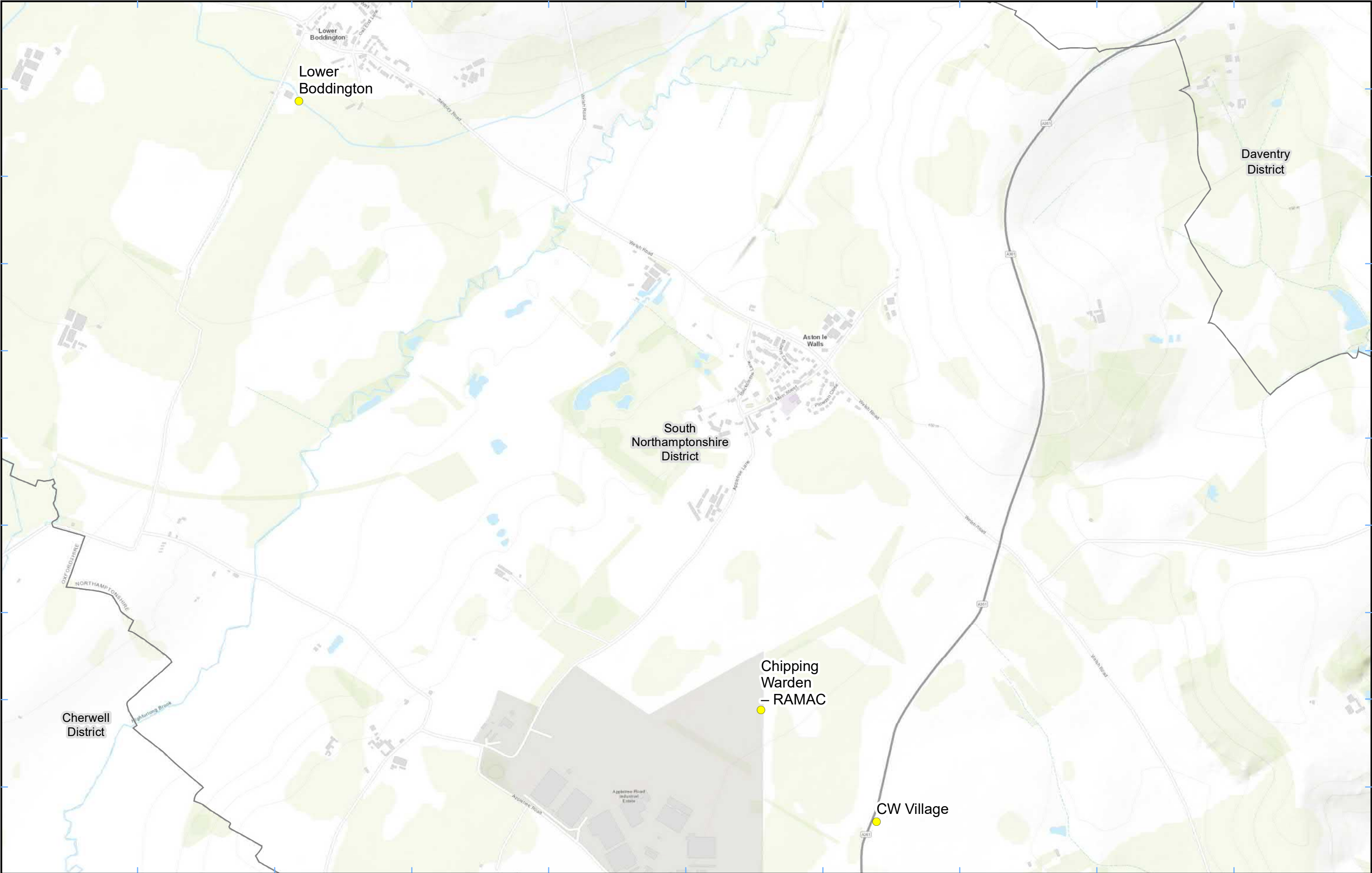
- 1.1.4 Four (4) dust monitors are installed around worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.5 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented in Figure 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.

- 1.1.6 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.
- 1.1.7 Data capture was below 90% for multiple monitors in January 2022 due to power supply issues.
- 1.1.8 There were no (0) dust trigger alerts recorded during the monitoring period (January 2022).
- 1.1.9 No (0) complaints were received during this reporting period.

Appendix A –Monitoring Locations

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



Legend

- Dust Monitor
- District Borough Unitary Boundaries

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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

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



© Crown copyright and database rights 2021.
Ordnance Survey Licence Number 100049190.

Doc Number:

Scale at A3: 1:12,000


Date: 23/11/21



- Legend**
-  Dust Monitor
 -  District Borough Unitary Boundaries

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Map Number
Map Name
Worksite and Monitoring Locations In WNDC (Sheet 2)
West Northamptonshire Council




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

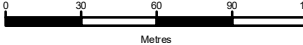
© Crown copyright and database rights 2021.
Ordnance Survey Licence Number 100049190.

Doc Number:

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.



Scale at A3: 1:3,000



Metres

Date: 23/11/21

Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and January 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	9.1	1.0	44.0	0	56.7
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	8.8	1.0	30.0	0	35.5
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	10.0	1.0	41.0	0	70.8
A43	459609, 238944	A43, Brackley, West Northamptonshire	M	Yes	Yes	9.2	2.0	35.0	0	21.8

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

