

Air Quality and Dust Monitoring Monthly Report – May 2020

Oxfordshire County 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 Fusion 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, 2020, 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 **OGI** 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.

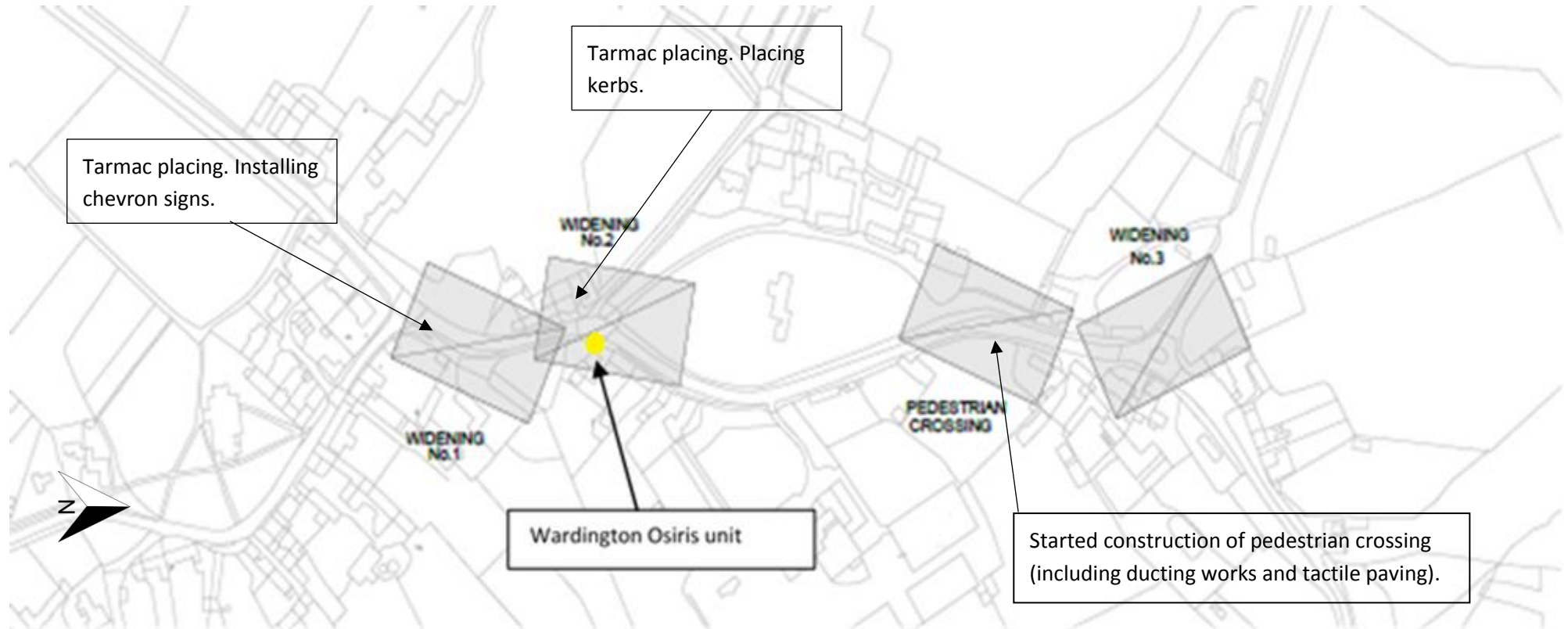
Monthly Summary

- 1.1.1 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 Oxfordshire County Council (OCC) during May 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for May 2020.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights out 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 during November 2019 and are expected to be completed by July 2020. The current works form part of Wardington road-widening item of the DC3A Work Package and, as presented in Appendix A, Figure 1, include:
- Tarmac placing at Wardington widening 2;
 - Placing kerbs at Wardington widening 2;
 - Tarmac placing at Wardington widening 1;
 - Installing chevron signs at Wardington widening 1; and
 - Starting construction of new pedestrian crossing (including ducting works and tactile paving).
- 1.1.5 One (1) dust monitor is installed around the worksites, where earthworks, construction and trackout activities are underway. These worksites returned a medium dust risk rating (for works currently active on site).
- 1.1.6 Dust monitoring location and results for May 2020 are presented in Appendix B, Table 1, together with a line chart of monthly data from this dust monitor presented in Figure 2. 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 There was one (1) dust trigger alert recorded at AQ002 during the May 2020 monitoring period. Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2. All other results were in line with expected ranges.
- 1.1.9 There were no (0) complaints, relating to dust or air quality, received during this reporting period (June 2020).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations during May 2020 within Oxfordshire County Council



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and May 2020 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	Data capture (%)
AQ002	449064, 246552	Secured to a lamppost opposite the entrance to Wardington House (outside of house number 3 on the A361)	M	Yes	No	19.8	4.3	225.7	1	99.2

Table 2: Summary of exceedances during the monitoring period (May 2020)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ002	<u>07/05/2020</u> : 15:00 - 16:00: 225.7 µg/m ³	The trigger alert occurred at a time when works were taking place at the Puffin Crossing. Works at this location ceased onsite at 15:30 p.m. due to the bank holiday shutdown on the 8 th of May. It was therefore not possible to identify the source of this spike but is thought to be from either an anomalous/one off vehicle on the A road adjacent to the monitoring equipment or an irregularity with the monitoring equipment.	Good housekeeping measures to be continued on site, in line with the Code of Construction Practice.

Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitor AQ002

