

Air Quality and Dust Monitoring Monthly Report – February 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.

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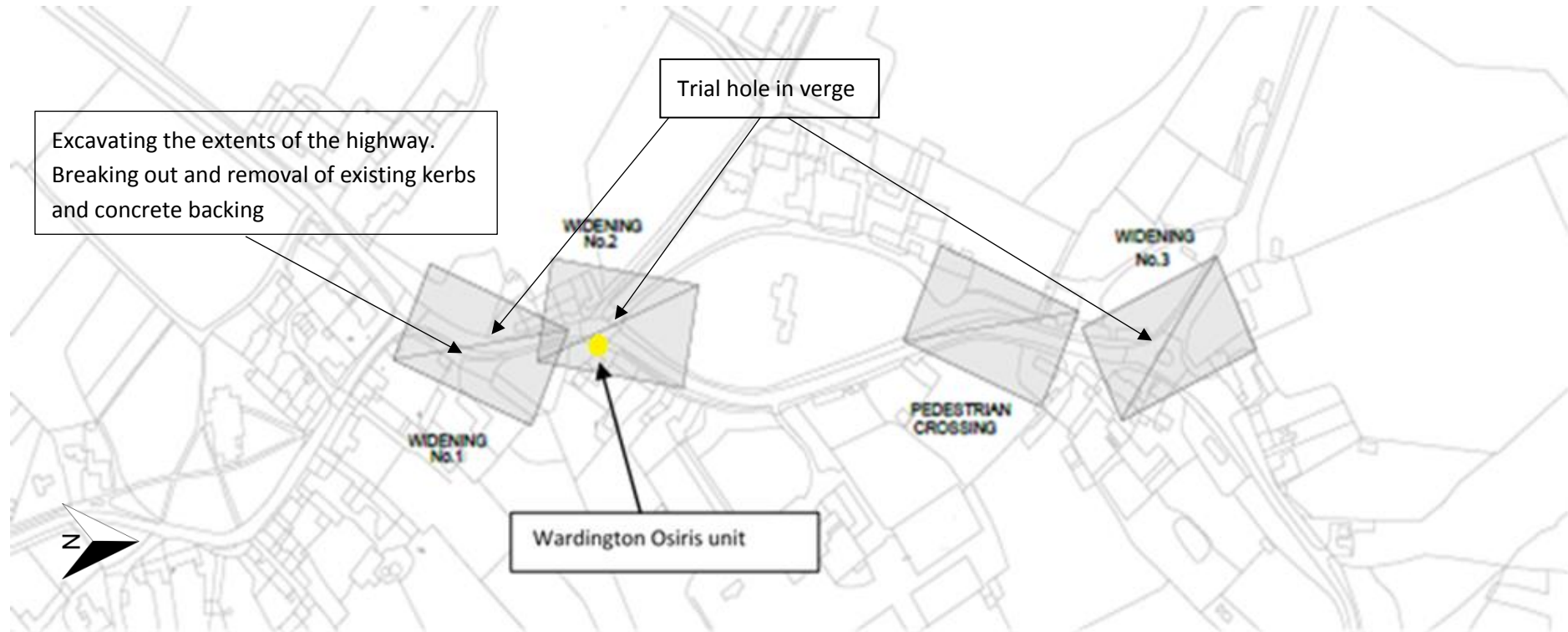
Monthly Summary

- 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 Oxfordshire County Council (OCC) during February 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for February 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: 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:
- Site surveys;
 - Excavation of the road widening at widening 1 (hand dig);
 - Concrete works at Wardington widening 1 (fill); and
 - Kerb install at Widening 1.
- 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 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 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 were no (0) dust trigger alerts recorded during the monitoring period (February 2020).

- 1.1.9 Data capture for dust monitor AQ002 was below 90% for the month of February 2020 due to improper battery changeover causing equipment failure. As a result, the monitor was offline between 01/02/2020 - 10/02/2020 and between 22/02/2020 - 29/02/2020. In addition, there were three (3) outages due to a fault with the monitor that resulted in excessive battery drainage on 14/02/2020, 17/02/2020 and between 18/02/2020 – 19/02/2020. A replacement monitor will be installed on site shortly. In the absence of monitoring, visual records were undertaken on days when works were underway at Widening 1.
- 1.1.10 There were no (0) complaints, relating to dust or air quality, received during this monitoring period (February 2020).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations within Oxfordshire County Council



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and February 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	9.4	0.7	29.6	0	38.4

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

